# [binding cefSharp client with Selenium Chrome Driver c#](https://stackoverflow.com/questions/35899813/binding-cefsharp-client-with-selenium-chrome-driver-c-sharp)

[Ask Question](https://stackoverflow.com/questions/ask)

I found this聽<https://bitbucket.org/chromiumembedded/cef/wiki/UsingChromeDriver>聽link which has java binding for cef client and Selenium Driver.

So I prepared one for me to use it with c# windows application. what i have done is created a new winapp project x86 that only contains the following code that runs with no error or issue:

using CefSharp;

using CefSharp.WinForms;

namespace ClientBrowser{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

public ChromiumWebBrowser browser;

private void Form1\_Load(object sender, EventArgs e)

{

var settings = new CefSettings();

settings.CefCommandLineArgs.Add("enable-npapi", "1");

settings.IgnoreCertificateErrors = true;

//settings.CefCommandLineArgs.Add("enable-system-flash", "1");

Cef.Initialize(settings);

browser = new ChromiumWebBrowser("");

this.Controls.Add(browser);

browser.Dock = DockStyle.Fill;

}

}}

above project is to act as cef client for the below new winapp project x86 below:

private void Form1\_Load(object sender, EventArgs e)

{

try {

var options = new ChromeOptions();

options.BinaryLocation = @"path/ClientBrowser.exe";

//options.AddArgument("--log-level=3");

var service = ChromeDriverService.CreateDefaultService();

//service.HideCommandPromptWindow = true;

driver = new ChromeDriver(service,options); //chromedriver.exe

driver.Navigate().GoToUrl("http://stackoverflow.com/");

}

catch (Exception ex)

{

Console.WriteLine(ex.Message);

}

}

now when I run the new above Project,

chromedriver.exe says:

Starting ChromeDriver 2.21.371459 (36d3d07f660ff2bc1bf28a75d1cdabed0983e7c4) on port 57883 Only local connections are allowed.

and then

ClientBrowser.exe聽opens up with nothing displayed in it and no error encountered but after 60 sec I am getting:

The HTTP request to the remote WebDriver server for URL http://localhost:57883/session timed out after 60 seconds.

but it should open聽http://stackoverflow.com/聽for me, I don't know what I am doing wrong, I have not included any聽selenium-server-standalone-x.y.z.jar? do I need this, if yes please any one let me know how do I include it.

also tried running it with聽Administrator Privilege

is there any way to directly bind聽ChromeDriver聽with聽ChromiumWebBrowser聽, so there will be no need for聽cefclient.exe

also tried with聽RemoteWebDriver:

try {

var options = new ChromeOptions();

options.BinaryLocation = @"C:\pathto\ClientBrowser.exe";

options.AddArgument("--remote-debugging-port=1131");

options.AddArgument("url=data:,");

//options.AddArgument("--log-level=3");

var service = ChromeDriverService.CreateDefaultService();

//service.HideCommandPromptWindow = true;

service.Port = 1131;

service.Start();

DesiredCapabilities capabilities = new DesiredCapabilities();

capabilities.SetCapability(ChromeOptions.Capability, options);

driver = new RemoteWebDriver(service.ServiceUrl, capabilities); //DesiredCapabilities.Chrome()

//driver = new ChromeDriver(service,options); //chromedriver.exe

driver.Navigate().GoToUrl("http://stackoverflow.com/");

}

but聽RemoteWebDriver聽also didn't work for me, really stuck now, please

any help or suggestion would be a great help for me and for others too who wanted to do the same like me, Thanks in advance.

[c#](https://stackoverflow.com/questions/tagged/c%23" \o "show questions tagged 'c#')聽[selenium](https://stackoverflow.com/questions/tagged/selenium" \o "show questions tagged 'selenium')聽[cefsharp](https://stackoverflow.com/questions/tagged/cefsharp" \o "show questions tagged 'cefsharp')

[share](https://stackoverflow.com/q/35899813" \o "short permalink to this question)[improve this question](https://stackoverflow.com/posts/35899813/edit" \o ")

[edited聽Mar 10 '16 at 7:06](https://stackoverflow.com/posts/35899813/revisions" \o "show all edits to this post)

asked聽Mar 9 '16 at 18:34

[IMG_256](https://stackoverflow.com/users/2847436/mohammed-sufian)

[Mohammed Sufian](https://stackoverflow.com/users/2847436/mohammed-sufian)

**1,103**32549

@amaitland could you please help me.聽鈥撀?a href="https://stackoverflow.com/users/2847436/mohammed-sufian" title="1,103 reputation" class="comment-user owner" style="margin: 0px; padding: 1px 5px; border: 0px; font-style: inherit; font-variant: inherit; font-weight: inherit; font-stretch: inherit; line-height: inherit; font-family: inherit; font-size: 13px; vertical-align: baseline; box-sizing: inherit; color: rgb(0, 119, 204); text-decoration: none; cursor: pointer; border-radius: 3px; background-color: rgb(225, 236, 244); white-space: nowrap;">Mohammed Sufian聽[Mar 9 '16 at 18:41](https://stackoverflow.com/questions/35899813/binding-cefsharp-client-with-selenium-chrome-driver-c-sharp" \l "comment59460325_35899813)

I have no time to answering issues at the moment. Read the聽CEF聽article again, your quite clearly missing something. Please don't ask me for help directly.聽鈥撀?a href="https://stackoverflow.com/users/4583726/amaitland" title="1,712 reputation" class="comment-user" style="margin: 0px; padding: 0px; border: 0px; font-style: inherit; font-variant: inherit; font-weight: inherit; font-stretch: inherit; line-height: inherit; font-family: inherit; font-size: 13px; vertical-align: baseline; box-sizing: inherit; color: rgb(0, 119, 204); text-decoration: none; cursor: pointer; white-space: nowrap;">amaitland聽[Mar 9 '16 at 21:37](https://stackoverflow.com/questions/35899813/binding-cefsharp-client-with-selenium-chrome-driver-c-sharp" \l "comment59466613_35899813)

thanks, and really sorry!, for directly asking it from you, I will read it again..聽鈥撀?a href="https://stackoverflow.com/users/2847436/mohammed-sufian" title="1,103 reputation" class="comment-user owner" style="margin: 0px; padding: 1px 5px; border: 0px; font-style: inherit; font-variant: inherit; font-weight: inherit; font-stretch: inherit; line-height: inherit; font-family: inherit; font-size: 13px; vertical-align: baseline; box-sizing: inherit; color: rgb(0, 119, 204); text-decoration: none; cursor: pointer; border-radius: 3px; background-color: rgb(225, 236, 244); white-space: nowrap;">Mohammed Sufian聽[Mar 10 '16 at 5:29](https://stackoverflow.com/questions/35899813/binding-cefsharp-client-with-selenium-chrome-driver-c-sharp" \l "comment59476220_35899813)

@amaitland could you please give me some hint what I am missing, I will try my best to go ahead with the hint provided by you, really sorry disturbing you.聽鈥撀?a href="https://stackoverflow.com/users/2847436/mohammed-sufian" title="1,103 reputation" class="comment-user owner" style="margin: 0px; padding: 1px 5px; border: 0px; font-style: inherit; font-variant: inherit; font-weight: inherit; font-stretch: inherit; line-height: inherit; font-family: inherit; font-size: 13px; vertical-align: baseline; box-sizing: inherit; color: rgb(0, 119, 204); text-decoration: none; cursor: pointer; border-radius: 3px; background-color: rgb(225, 236, 244); white-space: nowrap;">Mohammed Sufian聽[Mar 10 '16 at 5:35](https://stackoverflow.com/questions/35899813/binding-cefsharp-client-with-selenium-chrome-driver-c-sharp" \l "comment59476328_35899813)

add a comment

## 2 Answers

[active](https://stackoverflow.com/questions/35899813/binding-cefsharp-client-with-selenium-chrome-driver-c-sharp?answertab=active" \l "tab-top" \o "Answers with the latest activity first)[oldest](https://stackoverflow.com/questions/35899813/binding-cefsharp-client-with-selenium-chrome-driver-c-sharp?answertab=oldest" \l "tab-top" \o "Answers in the order they were provided)[votes](https://stackoverflow.com/questions/35899813/binding-cefsharp-client-with-selenium-chrome-driver-c-sharp?answertab=votes" \l "tab-top" \o "Answers with the highest score first)

up vote3down vote

I've just stumbled across this after spending many hours trying to achieve the same thing as the OP. I too was able to get Selenium working fine when testing against the cefclient.exe. However, our mock up CEF based application I was trying to test wouldn't play ball and Selenium would time out no matter what port I tried.

The solution turned out to be rather simple. It appears that when you launch the CEF embedded browser you can either pass in a URL string as an address or leave it blank. If you leave it blank, the page will be empty. This seems to cause Selenium to time out. If you add a URL though, Selenium connects fine and no port settings etc are required. Just the binary location switch. So my solution was as follows:

Within the CEF initialization code:

\_browser = new ChromiumWebBrowser("data:,")

{

Dock = DockStyle.Fill,

};

Within the Selenium initialization code:

var options = new ChromeOptions { BinaryLocation = "PathToYourCef.exe" };

cefDriver = new ChromeDriver(options);

[share](https://stackoverflow.com/a/40264961" \o "short permalink to this answer)[improve this answer](https://stackoverflow.com/posts/40264961/edit" \o ")

answered聽Oct 26 '16 at 14:27

[IMG_257](https://stackoverflow.com/users/4071014/phonesis)

[Phonesis](https://stackoverflow.com/users/4071014/phonesis)

**83**7

Can you provide more code for your example (particularly what exe I'm looking for to put in聽"PathToYourCef.exe"聽and what order to do these things in)?聽鈥撀?a href="https://stackoverflow.com/users/2246411/derekantrican" title="369 reputation" class="comment-user" style="margin: 0px; padding: 0px; border: 0px; font-style: inherit; font-variant: inherit; font-weight: inherit; font-stretch: inherit; line-height: inherit; font-family: inherit; font-size: 13px; vertical-align: baseline; box-sizing: inherit; color: rgb(0, 119, 204); text-decoration: none; cursor: pointer; white-space: nowrap;">derekantrican聽[May 16 at 18:31](https://stackoverflow.com/questions/35899813/binding-cefsharp-client-with-selenium-chrome-driver-c-sharp" \l "comment87771742_40264961)

add a comment