

Re: Semaphores and .NET

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.csharp/2005-08/msg04407.html>

- *From:* jinksk <jinksk@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 23 Aug 2005 07:19:08 -0700
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William;

Thanks for your advice and the code but this still does not solve the problem. The two applications are two separate executables that run simultaneously and need to share resources. Actually there are three; however, the customers I have to get this working for use only two of them. The Monitor class only works within a single application. It can only limit access to objects created by that executable and its underlying threads. A separate executable does not have access to the same instance of the Monitor class that was created by the first stand alone application.

What I need is a method to synchronize access to the RAS system where one stand-alone application does not interfere with the access to the RAS, DUNS, and Internet of another stand-alone application: given that I control the source code for both. We do not have the luxury at this time of completely re-writing the VB6 app in C# or even porting it to VB.NET. I am the only one working on the connectivity part of these two applications and I also have to handle the hand-written EDI translators for the project. I have until the end of September to accomplish this.

I know, you probably get projects like this thrown in your face every day. Let me just put the overview out for you for just a minute.

- 1.) We have 2 separate stand-alone applications we use to transmit data over the Internet via a IPsec VPN.
- 2.) The newest of these is written almost completely in C#.NET and only uses 1 ActiveX component: a Dialer from Catalyst. This application will eventually take over all of our connectivity needs except for faxing.
- 3.) The older stand-alone application is written in VB6 and uses the old Crescent Internet Controls. We still conduct our primary transfers via this app (where the \$\$\$'s go).
- 4.) They want me to create a means by which if one of these dials into the VPN first and then the second needs access as well to have the second skip the dialer routine (that part I've got figured out) and go ahead and log into the remote host.

Re: Semaphores and .NET

5.) Now comes the tricky part, if the first app finishes its transfer before the second one, it cannot hangup the connection. And visa versa. Only when no one else is connected can the IPSec tunnel be dropped.

See the dilemma?

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"William Stacey [MVP]" wrote:

> I did a managed semaphore in c# and has been on the CodeProject for some
> time:
> <http://www.codeproject.com/csharp/DijkstraCountingSemaphore.asp>
> You should be able to modify for your needs.
>
> ---
> William Stacey [MVP]
>
> "jinksk" <jinksk@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
> news:905158FC-E844-47CA-A263-08179F5BB9C0@xxxxxxxxxxxxxxxxxxxx
>> I have a C# application and a VB6 application that need to share a dialup
>> connection to the internet. Don't ask why, this is one of those corporate
>> "do
>> or die" things.
>>
>> The only way I can see to do this is by using the combination of a MUTEX
>> to
>> create a Cross-application Singleton for the Dialing operation and a Named
>> Semaphore that can keep a count of how many processes are currently sharing
>> the connection from the client's workstation into our corporate VPN
>> extranet.
>> I am trying to find an example of how to manage semaphores in C# in a
>> class.
>> I will have to translate the same into the VB6 for the legacy app.
>>
>> Using .NET 2.0 is not an option, they won't let me use a BETA. Neither is
>> remoting. I have to make the access sharable between executables modules.
>> Does any one have any ideas.
>> ---
>> Kenneth A. Jinks, Jr.
>> Lead Project Software Engineer
>> LabCorp CPG – LCM Development
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Re: Semaphores and .NET

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• *Follow-Ups:*

- ◆ **[Re: Semaphores and .NET](#)**
 ◇ *From:* William Stacey [MVP]
- ◆ **[Re: Semaphores and .NET](#)**
 ◇ *From:* mag

• *References:*

- ◆ **[Semaphores and .NET](#)**
 ◇ *From:* jinksk
- ◆ **[Re: Semaphores and .NET](#)**
 ◇ *From:* William Stacey [MVP]

- Prev by Date: **[Re: Reentrant \(?\) Console Application....](#)**
- Next by Date: **[Re: Float based math class. Is it exist?](#)**
- Previous by thread: **[Re: Semaphores and .NET](#)**
- Next by thread: **[Re: Semaphores and .NET](#)**
- Index(es):
 - ◆ **[Date](#)**
 - ◆ **[Thread](#)**