

Re: LAN and GPRS

Source:

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From: Scott Herriman (*sch_at_callwave.com*)

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I second the notion of using IP Helpers. It is difficult to know what the order of precedence of your connections is. In my recent findings it appears to work like a push down stack. Starting a VPN after a RAS connection after a LAN (comes up at boot) is different then RAS after a VPN after a LAN. To solve this problem IP Helpers will do one thing. You can get an event when the routing table changes, look at NotifyRouteChange & NotifyAddrChange. This will let you know when these tables change. You should be able to compare a previous snapshot with a new snapshot to decide what action to take.

Yes you can bind to a specific port for TCP. Enumerate all the interfaces on the machine (gethostbyname or GetIfTable) and bind to each of the interfaces (or the one that you prefer). When you send data you just need to indicate which interface is the preferred interface.

I would abstract away all these details from the service itself. You could have a low level socket interface that does the following:

- * Determines which interfaces are available. GetIfTable
- * Notices when the list of interfaces changes and updates NotifyRouteChange NotifyAddrChange
- * Binds to the proper interface(s)
- * Sends on the preferred interface.

Of course using TCP the stream will be broken when an interface goes down and you will not want to change sending sockets until the connection is no longer needed. Sounds to me like you need a socket pool. You check out a socket and use it until done.

Scott

"Eugene Gershnik" <gershnik@hotmail.com> wrote in message
news:%23VU9OFOLEHA.620@TK2MSFTNGP10.phx.gbl...

> *oaix wrote:*

> > *Thanks.*

> >

> > *all i need to do is set up a TCP/IP connection with my app server.*

> > *if LAN is avaiable, i will use LAN, when LAN is unavauable, i'll*

> > *connect via GPRS.*
> >
> > *the problem is , once the GPRS is connected, it override the LAN*
> > *setting . so when i plug in the LAN cable, i have to play with the*
> > *routing table and make it works but all is by manually, how it could*
> > *be done by script?*
>
> *For a programmatic way check IP Helper documentation in MSDN. If you want*
to
> *expose this functionality to scripts you will have to wrap IP Helper*
> *functions in a script-friendly COM wrapper.*
>
> > *my question is the routing table is the only way to solve it?*
>
> *The correct way is to go through routing table. It captures user desires*
> *regarding how a connection to a specific destination should be made.*
>
> > *we*
> > *can't make it at socket level, right? as i know you can 't bind to a*
> > *select IP for a TCP/IP client.*
>
> *Well for UDP there is SO_DONTROUTE but MSDN says that Windows doesn't*
honor
> *it.*
>
> --
> *Eugene*
>
>
>