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How to Check if TCP/IP is Active

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Thu, 01/13/2005 (All day)

Q: How can I check to see if the STRTCP command has been run? I have a program that runs at start up that needs TCP/IP. How can I wait until TCP/IP has started to run it?

A: The Retrieve TCP/IP Attributes (QtocRtvTCPA) API can tell you if TCP/IP is operational. Carsten Flensburg has written a command that uses this API to check if TCP/IP is operational.

This RTVTCPSTS command will return one of three values. It will return O if TCP/IP is operational, N if it is not operational, or E if an error occurs.

For example, the following is a CL program that checks every second to see if TCP/IP is operational. Once it's operational, it could run the program that needs TCP/IP support:

Pgm

```
Dcl          &TcpSts      *Char      1
```

TryAgain:

```
RtvTcpSts   TcpSts( &TcpSts )
```

```
If          ( &TcpSts *NE 'O' ) Do
```

```
    DlyJob   Dly(1)
```

```
    GoTo     TryAgain
```

```
EndDo
```

```
/*-- Run program that needs TCP/IP --*/
```

```
EndPgm
```

You can download the source code for the RtvTcpSts utility from iSeries Network's Web site at the following link: <http://www2.systeminetwork.com/noderesources/code/clubtechcode/RtvTcpSts.zip> You can learn more about the Retrieve TCP/IP Attributes (QtocRtvTCPA) API from the following link: <http://publib.boulder.ibm.com/series/v5r2/ic2924/info/apis/qtocrtvtcpa.htm> The source code for this article was written by Carsten Flensburg, and the article text was written by Scott Klement.

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