



APIs by Example: TCP/IP Management APIs, Part 2

[System iNetwork](#)

System iNEWS Staff

Thu, 08/21/2003 (All day)

Last week's installment of Carsten Flensburg's APIs by Example featured three TCP/IP management APIs: Retrieve TCP/IP attributes (QtocRtvTCPA), List Network Connections (QtocLstNetCnn), and List Network Connection Data (QtocRtvNetCnnDta).

This week's example complements last week's code by letting you retrieve the same information that's available in IBM's WrkTCPSts command. Two sample programs are provided. The first, CBX1061, uses the List Network Interfaces (QtocLstNetIfc) API to retrieve a list of logical TCP/IP network interfaces, then prints each network interface in a simple report. The second program, CBX1062, uses the List Network Routes (QtocLstNetRte) to retrieve a list of the TCP/IP network routes and print each network route to a report.

The earliest OS/400 release required for both sample programs is V5R1.

Here's a list of all the APIs used in the programs:

List Network Interfaces (QtocLstNetIfc)

This API returns a detailed list of all logical TCP/IP interfaces with details.

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/index.htm?info/apis/qtocrtvtcpa.htm>

List Network Routes (QtocLstNetRte)

The QtocLstNetRte API returns a detailed list of all routes.

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/qtoclstnetrte.htm>

Retrieve TCP/IP Attributes (QtocRtvTCPA)

This API retrieves TCP/IPv4 and TCP/IPv6 stack attributes.

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/qtocrtvtcpa.htm>

Create User Space (QUSCRTUS)

This API creates a user space in either the user domain or the system domain.

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/quscrtus.htm>

Retrieve Pointer to User Space (QUSPTRUS)

QUSPTRUS retrieves a pointer to the contents of a user-domain user space.

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/quspstrus.htm>

Delete User Space (QUSDLTUS)

This API deletes user spaces created with the Create User Space (QUSCRTUS) API.

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/qusdltus.htm>

You can obtain the RPG IV sample program CBX1061 and CBX1062 at

<http://www2.systeminetwork.com/noderesources/code/clubtechcode/TCPIPManageAPIsPart2.zip>.

The above source code was written by Carsten Flensburg. For questions regarding this tip, contact Carsten at <mailto:flensburg@novasol.dk>.

Source URL: <http://iprodeveloper.com/rpg-programming/apis-example-tcpip-management-apis-part-2>