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## Retrieve IP Addresses of Displays and Printers with Command RTVDEVIP

[System iNetwork Systems Management Newsletter](#)

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Since our lead story in this newsletter deals with future SNA support, it seemed only right that we provide a great TCP/IP utility for this issue. Carsten Flensburg presents the new CL commands **RTVDEVIP** (Retrieve Device IP Address) and **DSPDEVIP** (Display Device IP Address).

The key to these commands lies in the IBM API QDCRDEVD. The IP address of a display or printer is made available to this API when using the API interface DEVDo600 (Display) and DEVD1100 (Printer).

The API is documented at the following URL:

<http://publib.boulder.ibm.com/infocenter/iserics/v5r3/ic2924/index.htm?info/apis/QDCRDEVD.htm>

As is the case for other OS/400 (i5/OS) Retrieve commands, the RTVDEVIP command can only be used in a CL program; it can't be used from a command line. Here is an example of using the command inside of a CL program:

```
PGM
DCL      &IPADDRESS      *CHAR      15
RTVDEVIP  DEV(*CURRENT)  IPADDR(&IPADDRESS)
SNDPGMMSG ('Your IP Address is' *BCAT &IPADDRESS)
ENDPGM
```

The DEV parameter default value is \*CURRENT. You can also specify the name of an IP attached display device or an IP Printer. The return value is placed into the CL variable identified on the IPADDR parameter. The command returns the current IP address of the specified display or printer device in dotted decimal form. If the specified device is not currently varied on, the special value \*NONE is returned.

For use from a command line, or in a program you can use the command DSPDEVIP (Display Device IP Address). The command processing program for this command uses the RTVDEVIP command to get the IP address:

```
DSPDEVIP  DEV(*CURRENT)
```

You could also specify the name of a display or printer device as in:

```
DSPDEVIP  DEV(QPADEV0001)
```

When the DSPDEVIP command is used from a command line, you will see a message indicating the IP Address.

```
Device QPADEV0001 has IP address 192.168.101.118.
```

The following source code is included:

- CBX9421 -- Retrieve Device IP Address CPP
- CBX9421H -- Retrieve Device IP Address help text panel group
- CBX9421X -- Retrieve Device IP Address command definition
- CBX9422 -- Display Device IP Address CPP  
CBX9422H
- CBX9422H -- Display Device IP Address help text panel group
- CBX9422X -- Display Device IP Address command definition

See each source member for compile instructions.

You can download a zip file containing all the source code from the following URL:

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

**Note:** Command RTVDEVIP must be created prior to creating the command DSPDEVIP.

**Source URL:** <http://iprodeveloper.com/networking/retrieve-ip-addresses-displays-and-printers-command-rtvdevip>