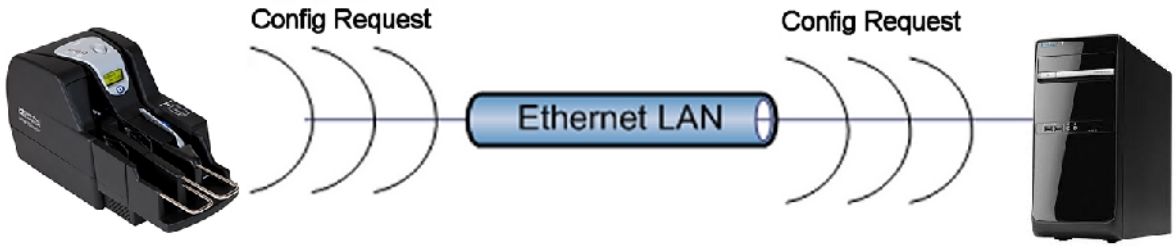
ssxip

The `ssxip` tool allows a system administrator to configure the TCP/IP network settings of a SmartSource Expert on the local Ethernet LAN.



When a SmartSource Expert boots, it starts sending UDP broadcast messages on port 50004. These messages are meant to identify the sorter to any running CAPI Manager program. If a running CAPI Manager program sees the broadcast message, it can reply on UDP port 50003. The reply may contain updated networking parameters, which the Expert will use.

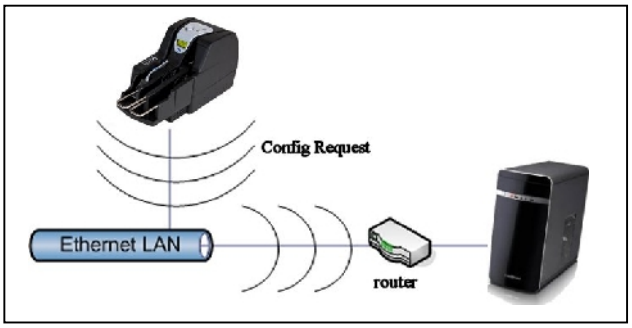
`ssxip` takes advantage of this behavior and looks for these messages and replies with a user specified network configuration.

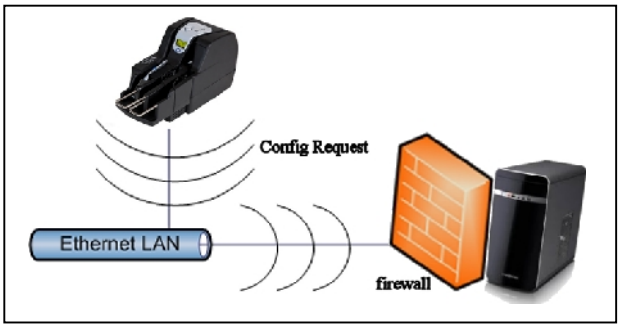
Usage

```
ssxip v1.0.0.7 (c) 2009-2017 Digital Check Corp. http://www.digitalcheck.com

  ssxip [device-id] [configuration-options] [tool-settings]

  device-id - identifies the target sorter:
    -s serial : identifies the target sorter's serial number
    -r ipaddr : identifies the target sorter's current IP address.

  configuration-options - specify new configuration parameters:
    -i ip     : ip address to assign to the sorter
    -u mask   : subnet mask to assign to the sorter
    -g gtwy   : gateway address to assign to the sorter
                (Requires scanner firmware v2.7 or above)
    -d on|off : enable/disable DHCP on the sorter

  tool-settings - change the behavior of this tool
    -b ifc    : bind to a specific network interface
    -f        : firewall mode. Send cfg msg w/o waiting for request from sorter.
                In this mode, you must also specify the '-r ipaddr' option.
    -v        : verbose mode

  If the -s option is missing, a listening mode is entered and
  information is displayed from any broadcasting sorters on the network.

  Ex: Setup static IP addressing for sorter 514555555 using 192.168.1.101:

  C:\>ssxip -s 514555555 -d off -i 192.168.1.101 -u 255.255.255.0
```

Firewalls and Routers

When there is a router in between the target sorter and the PC running the `ssxip` tool, the Expert broadcast messages will probably be blocked by the router and they will not be captured by the `ssxip` tool.





This is also the case when the local PC's firewall policy prevents it from accepting the UDP broadcast messages. In these situations, use `ssxip` in "firewall mode" (the -f option). In this mode, `ssxip` will not wait for a configuration request to be sent from the sorter - instead it will simply send a configuration reply message to the sorter.

Example: This command will enable firewall mode and send a configuration message to sorter 514502012 at IP address 192.168.1.101. It is requesting that the sorter change to IP address 192.168.1.105 with a subnet mask of 255.255.255.0 and use the default gateway 192.168.1.100.

```
C:\>ssxip -f -s 514502012 -r 192.168.1.101 -i 192.168.1.105 -u 255.255.255.0 -g
192.168.1.100 -b 192.168.1.100
```