

1. SIP mode on an NBX system means standard SIP support (RFC 3261) with no proprietary extensions to SIP. Third party telephone features that are dependent on non-standard SIP will not work. A SIP mode system does not support secure SIP signaling or secure RTP. It does not support NAT, firewalls, or RTP relay. Communication is over UDP only.
2. VTL connections are not available on a SIP-mode system.
3. VTL connections cannot be configured to run through firewalls or NAT routers.

**To add a broadband connected telephone behind a NAPT device:**

1. Verify that the system is set up for IP operations, either Standard IP or IP On-the-Fly. If you are not using a VPN connection to establish access from your home system to the system network, the system must have a public IP address.
2. Use the NBX NetSet utility to enable Auto Discover Telephones (System-Wide Settings > Auto Discovery) and then connect the 3Com Telephone to the system. Autodiscovering the telephone while it is connected locally to the network allows the system to configure the telephone in the system database and assign an extension number. You can manually add the telephone to the system database instead of using the Auto Discover feature.
3. Move the telephone to its intended location. Connect it to power and then use the telephone Local User Interface (LUI) utility to program these settings:
  - Call Processor MAC address — Required only when the network has more than one Call Processor.
  - Telephone IP address — A private IP address matching the IP address scheme on the LAN side of the NAPT device but outside of the DHCP address range configured in the NAPT device. The telephone must have a static IP address. For the pcXset application, this is the IP address of the computer.
  - Call Processor IP address — The IP address of the Call Processor with which the telephone must communicate. If you are not connecting to the network through a VPN connection, the system must have a public IP address.
  - Subnet Mask — The address mask in use on the LAN side of the NAPT device.
  - Default Gateway — The IP address of the NAPT device on the LAN.
4. Configure the NAPT device. Use the device's user interface to map UDP ports 2093-2096 to the 3Com telephone IP address. These UDP ports are registered ports for system operations. This mapping feature, known as virtual server, port mapping, port range forwarding, or rules, is required to allow traffic to pass to and from the 3Com Telephone.