

Connecting Your Network to Cbeyond



Think *Inside* the Box.



CBEYOND COMMUNICATIONS™

The last communications company a small business will ever need.™



Then Let's Get Connected.

*Three options for data connectivity to meet
the unique needs of your business.*

On the outside, it's just another box. But inside, Cbeyond's Integrated Access Device (IAD) is a specially designed router that manages communications between your network and Cbeyond.

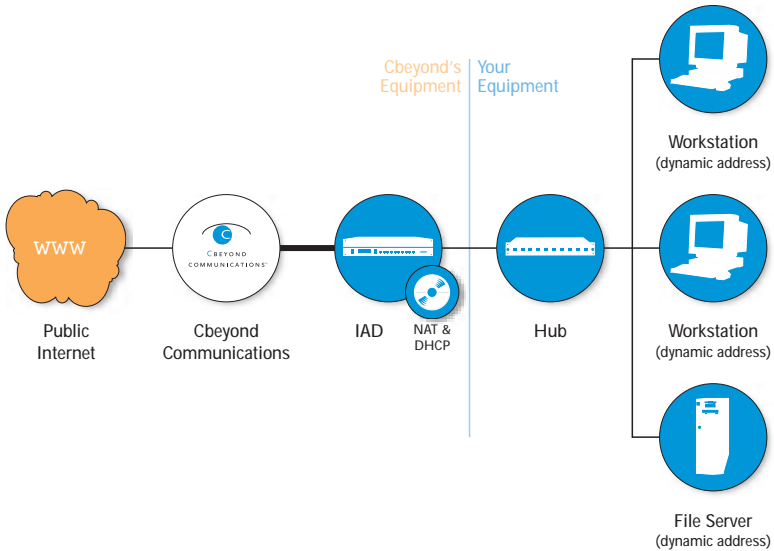
We install the IAD on your premises when you choose Cbeyond Communications as your one source for integrated voice and broadband Internet. And to ensure that your network is configured for the maximum benefit to your business, we offer three choices for data connectivity – Standard, Standard with Port Forwarding and Multinet.

Look inside to determine which option best meets your needs.

1

Standard

Standard Configuration includes NAT security, DHCP, and one public IP address activated on our IAD. This configuration provides private IP addresses for all networked workstations and internal servers, as well as a private IP range for network devices requiring static addressing, such as printers.



For Businesses With:

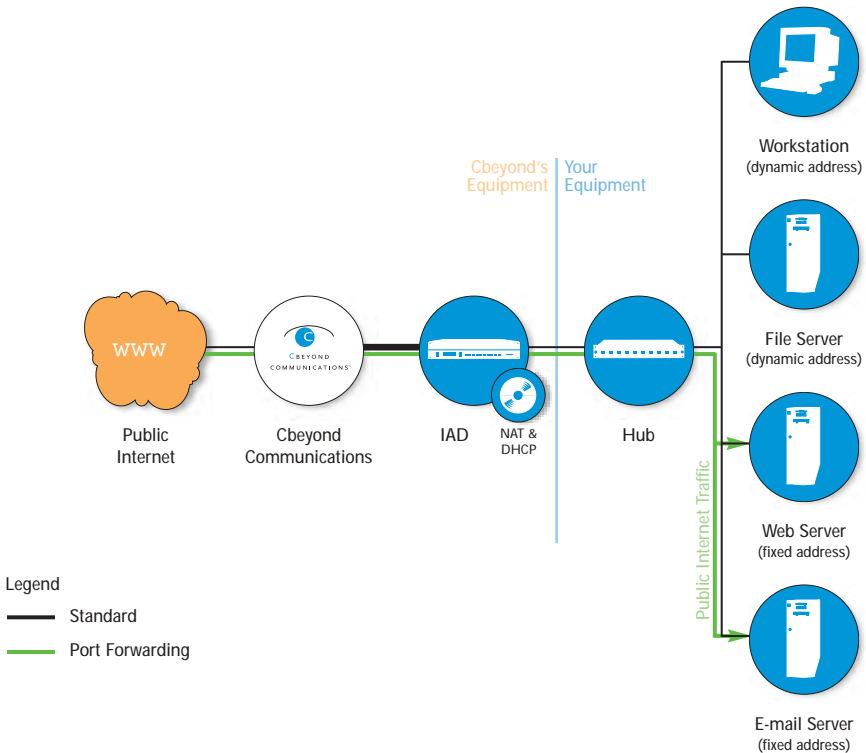
- Ethernet LAN
- No servers requiring access from the Internet

Benefits:

- Standard Configuration with NAT helps prevent direct access from the Internet to your private network^{1,2}
- NAT, with its inherent security advantages, reduces the need to purchase/operate separate firewalls
- No impact to web surfing or sending/receiving Emails
- Easily expand your network architecture
- Cbeyond handles router configuration and management

2 Standard with Port Forwarding

Port Forwarding selectively allows most inbound traffic types to pass through Cbeyond's IAD to your Standard Internet Accessible Servers. (See back panel for listing.)



For Businesses With:

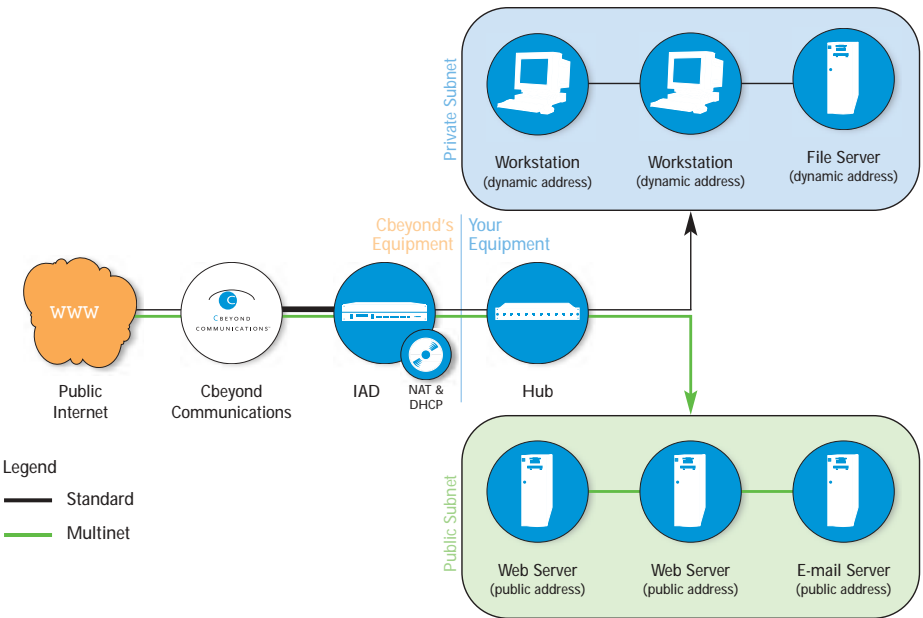
- Single Instances of Standard Internet Server types (see back panel for listing)
- Ethernet LAN
- Less Than 10 servers requiring access from the Internet

Benefits:

- All the benefits of Standard Configuration, plus...
- Preserves NAT's security advantages for your network
- Enables you to better manage how traffic is accessing your Internet servers
- Eliminates the expense of public IP addresses

3 Multinet

Multinet configuration creates a public subnet that exposes specific servers on your network to the Internet using public IP addresses (allocated by Cbeyond)*. Servers on the public subnet will not be protected by Cbeyond's NAT security. Multinet configuration is only needed if you have multiple servers of the same traffic type requiring public access from the Internet, or if you have devices on your network that have traffic types not supported by Cbeyond Port Forwarding (see back panel).



For Businesses With:

- Multiple instances of common Standard Internet Servers (see back panel)
- Ethernet LAN
- Specific VPN and remote access solutions (including IP-SEC VPN, Microsoft NetMeeting, and H.323-based services)

Benefits:

- All the benefits of standard configuration plus...
- Allows you to operate both public and private subnets at the same time
- Multinet configuration includes up to five registered IP addresses for configuration on network servers
- You designate which network devices are configured with public IP addresses and which are configured with private IP addresses

Glossary of Technical Terms:

NAT: Network Address Translation is a method of passing traffic from a privately addressed network to a publicly addressed network. By its very nature, NAT helps prevent access from the public network to a private network.

IAD: Integrated Access Device is a specially-designed Cisco router which is the gateway for voice and data services.

DHCP: Dynamic Host Configuration Protocol is a method of dynamically serving IP addresses to devices on your network.

VPN: A Virtual Private Network provides data connectivity between sites or users (“network”) by encapsulating network packets into new packets to allow transition over the public network (“private”) and is not dependent on dedicated physical links (“virtual”).

Public Subnet: A portion of a network that shares a common address component. On TCP/IP networks, subnets are defined as all devices whose IP addresses have the same prefix. For example, all devices with IP addresses that start with 10.0.1.x would be part of the same subnet.

Cbeyond Standard Internet Accessible Servers

Port Forwarding supports the following standard inbound traffic types:

Network Server	Traffic Protocol
Web Server	HTTP
Web Server	HTTPS
FTP Server	FTP
Remote Terminal Access	SSH
Remote Terminal Access	Telnet
Email Server	SMTP
Email Server	POP2 / POP3
Email Server	IMAP
Remote Console Access	PC Anywhere



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* Monthly fee charged for public IP addresses.

1 Cbeyond’s implementation of NAT conforms with accepted industry standards, as defined in IETF RFCs 2766 and 3022 and with Cisco’s standard operating procedures.

2 NAT cannot prevent indirect threats from the Internet. Many network intruders arrive through web page downloads and inbound email, which terminate on a customer’s private network.