ARNESYS Ltd
10 Parkside Gdns
Nottingham, NG8 2PP, UK
or PO Box 5834
Nottingham, NG9 2UG, UK
Tel   +44 115 854 9664
FAX   +44 115 854 9665
E-mail: admin@arnesys.com

Networking Protocols

Arnesys IP Phones support several industry-standard and Arnesys networking protocols required for voice communication. See table below for an overview of the supported networking protocols.

Supported Networking Protocols on the Arnesys IP Phone Networking Protocol	Purpose	Usage Notes
Internet Protocol (IP)	IP is a messaging protocol that addresses and sends packets across the network.	To communicate using IP, network devices must have an assigned IP address, subnet, and gateway. IP addresses, subnets, and gateways identifications are automatically assigned if you are using the Arnesys IP Phone with Dynamic Host Configuration Protocol (DHCP). If you are not using DHCP, you must manually assign these properties to each telephone locally.
Voice over IP Protocol (VoIP)	VoIP enables you to transfer voice communications over a data network using the Internet Protocol.	Arnesys IP Phones connect to the PSTN through a VoIP gateway.
Bootstrap Protocol (BootP)	BootP enables a network device such as the Arnesys IP Phone to discover certain startup information, such as its IP address.	If you are using BootP to assign IP addresses to the Arnesys IP Phone, this is displayed in the network configuration settings on the phone.
Trivial File Transfer Protocol (TFTP)	TFTP allows you to transfer files over the network. On the Arnesys IP Phone, TFTP enables you to obtain a configuration file specific to the phone type.	TFTP requires a TFTP server in your network, which can be automatically identified from the DHCP server. If more than one TFTP server is running in your network, you must manually assign a TFTP server to each phone locally.

Dynamic Host Configuration Protocol (DHCP)	DHCP dynamically allocates and assigns an IP address to network devices. DHCP enables you to connect the IP phone into the network and become operational without manually assigning an IP address and configuring additional required network parameters.	DHCP is enabled by default. If disabled, you must manually configure the IP address, subnet mask, gateway, and an TFTP server on each phone locally.
Real-Time Transport (RTP)	RTP is a standard for transporting real-time data, such as interactive voice and video over data networks.	Arnesys IP Phones can collect and process RTP traffic from routers, hubs, and switches.
Transmission Control Protocol (TCP)	TCP is a connection oriented transport protocol.	Arnesys IP Phones use TCP to connect to Arnesys Call Manager.
User Datagram Protocol (UDP)	UDP is a connectionless messaging protocol for delivery of data packets.	Arnesys IP Phones can receive and process UDP messages.