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## WAN Connections

<https://campus.barracuda.com/doc/41116035/>

The Barracuda NG Firewall supports all commonly used WAN connection types. You can set up static, DHCP, xDSL, UMTS/3G, and ISDN WAN connections to connect your network to the Internet. Link failover and balancing can be configured either on a per-access rule basis by using custom connection objects or in a more basic configuration via route metrics. You can also select different Internet connections based on the application type.

### Static Internet Connections

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If your ISP assigns a static IP address or network to your Internet connection, configure a static Internet connection to connect the Barracuda NG Firewall to the Internet. You must add a route on box layer for the network port the ISP is connected to. The connection becomes active when the assigned IP address or IP address within the assigned network is configured as virtual server IP address or if the unit is remote managed a additional IP address is defined on box layer.

For more information, see [How to Configure an ISP with Static IP Addresses](#).

### DHCP Connections

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If the IP address is assigned dynamically by your ISP via a DHCP server, the Barracuda NG Firewall acts as a DHCP client. The Barracuda NG Firewall supports up to six concurrent DHCP connections. No extra routing rules need to be configured for DHCP connections.

For more information, see [How to Configure an ISP with Dynamic IP Addresses \(DHCP\)](#).

### xDSL Connections

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The Barracuda NG Firewall supports xDSL connections using PPP, PPTP, and PPPoE. Because some xDSL providers periodically disconnect your xDSL modem from the network, xDSL link management automatically introduces and deactivates routes as required.

For more information, see [How to Configure an ISP with xDSL](#).

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## UMTS/3G Connections

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Configure UMTS/3G WAN connections for locations without a terrestrial Internet connection, mobile offices or as backup lines. You must use a supported USB UMTS modem, such as the external Barracuda USB modem, for UMTS/3G connections.

For information on setting up the Barracuda USB modem, see the [Barracuda USB Modem Quick Start Guide \(PDF\)](#).

For information on how to configure UMTS/3G connections, see [How to Configure an ISP with UMTS/3G](#).

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## ISDN Connections

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The Barracuda NG Firewall ISDN configuration provides flexible dial-in options, dynamic DNS support, channel bonding (mppp), and usage of a second S0 bus with a different phone number. ISDN connections can be used with static or dynamic IP addresses.

For more information, see [How to Configure an ISP with ISDN](#).

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## Link Balancing and Failover

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Configure link balancing and failover to optimize usage of two or more WAN connections. Use custom connection objects to select the optimal connection for the traffic handled by that access rule. You can define multiple connection objects, each with a different failover or link balancing policy. You can also use route metrics for basic link failover functionality.

For information on link balancing for multiple WAN connections, see [How to Configure Link Balancing and Failover for Multiple WAN Connections](#).

For information on link balancing for two DHCP connections, see [How to Configure Automatic Failover with Dual DHCP WAN Connections using the Same Remote Gateway](#).

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