

WAP121和WAP321接入点上的IPv6配置

目标

IPv6是下一代IP地址标准，旨在取代IPv4格式。IPv6使用128位编址代替IPv4中使用的32位编址来解决地址稀缺问题。本文档的目标是使用动态主机配置协议第6版(DHCPv6)或静态配置在接入点上配置IPv6设置。默认情况下，WAP121/WAP321上的DHCP客户端会自动广播网络信息请求。如果要使用静态IPv6地址，必须禁用DHCPv6客户端并手动配置IPv6地址和其他网络信息。

适用设备

- WAP121
- WAP321

软件版本

- 1.0.3.4

IPv6的配置

步骤1.登录Web配置实用程序并选择**LAN > IPv6 Addresses**。“IPv6 地址”页面随即打开：

IPv6 Addresses

IPv6 Connection Type:

☒ DHCPv6

☐ Static IPv6

IPv6 Administrative Mode:

☒ Enable

IPv6 Auto Configuration Administrative Mode:

☒ Enable

Static IPv6 Address:

Static IPv6 Address Prefix Length:

0

(Range: 0 - 128, Default: 0)

Static IPv6 Address Status:

IPv6 Autoconfigured Global Addresses:

IPv6 Link Local Address:

fe80::ceef:48ff:fe87:4970/64

Default IPv6 Gateway:

IPv6 Domain Name Servers:

☒ Dynamic

☐ Manual

Save

The image shows a configuration window titled "IPv6 Addresses". It contains several settings for IPv6 connectivity. The "IPv6 Connection Type" is set to "DHCPv6", which is highlighted with a red rectangle. Other settings include "IPv6 Administrative Mode" and "IPv6 Auto Configuration Administrative Mode" both set to "Enable". There are input fields for "Static IPv6 Address", "Static IPv6 Address Prefix Length" (set to 0), and "Static IPv6 Address Status". The "IPv6 Autoconfigured Global Addresses" section shows a "Link Local Address" of "fe80::ceef:48ff:fe87:4970/64". There are also fields for "Default IPv6 Gateway" and "IPv6 Domain Name Servers" (set to "Dynamic"). A "Save" button is at the bottom left.

IPv6 Addresses

IPv6 Connection Type: ☒ DHCPv6 ☐ Static IPv6

IPv6 Administrative Mode: ☒ Enable

IPv6 Auto Configuration Administrative Mode: ☒ Enable

Static IPv6 Address:

Static IPv6 Address Prefix Length: (Range: 0 - 128, Default: 0)

Static IPv6 Address Status:

IPv6 Autoconfigured Global Addresses:

IPv6 Link Local Address: fe80::ceef:48ff:fe87:4970/64

Default IPv6 Gateway:

IPv6 Domain Name Servers: ☒ Dynamic ☐ Manual

Save

步骤2.选择所需的IPv6连接类型。IPv6连接类型告知设备如何获取IPv6地址。

- DHCPv6 - DHCPv6服务器将IPv6地址分配给设备。如果选择DHCPv6选项，则转到[DHCPv6](#)。

- 静态IPv6 — 如果要手动将IPv6地址分配给设备。如果选择静态IPv6，则转到[静态IPv6](#)。

步骤3. (可选) 如果要允许对接入点的IPv6管理访问，请选中IPv6 Administrative Mode字段中的**Enable**复选框。

步骤4. (可选) 如果要通过LAN端口上收到的路由器通告了解其IPv6地址和网关，请选中IPv6 Auto Configuration Administrative Mode字段中的**Enable**复选框。接入点可以有多个自动配置的IPv6地址。

[DHCPv6](#)

The image shows a configuration window titled "IPv6 Addresses". It contains several settings for IPv6 connectivity. The "IPv6 Connection Type" is set to "DHCPv6" (selected with a radio button). "IPv6 Administrative Mode" and "IPv6 Auto Configuration Administrative Mode" are both checked and set to "Enable". The "Static IPv6 Address" field is empty. The "Static IPv6 Address Prefix Length" is set to "0", with a note "(Range: 0 - 128, Default: 0)". The "Static IPv6 Address Status" is empty. The "IPv6 Autoconfigured Global Addresses" section is empty. The "IPv6 Link Local Address" is set to "fe80::ceef:48ff:fe87:4970/64". The "Default IPv6 Gateway" field is empty. The "IPv6 Domain Name Servers" are set to "Dynamic" (selected with a radio button). Below this, there are two empty text boxes for manual DNS server entries. A "Save" button is located at the bottom left of the window.

IPv6 Addresses

IPv6 Connection Type: ☒ DHCPv6 ☐ Static IPv6

IPv6 Administrative Mode: ☒ Enable

IPv6 Auto Configuration Administrative Mode: ☒ Enable

Static IPv6 Address:

Static IPv6 Address Prefix Length: (Range: 0 - 128, Default: 0)

Static IPv6 Address Status:

IPv6 Autoconfigured Global Addresses:

IPv6 Link Local Address: fe80::ceef:48ff:fe87:4970/64

Default IPv6 Gateway:

IPv6 Domain Name Servers: ☒ Dynamic ☐ Manual

Save

步骤1.在IPv6连接类型(IPv6 connection Type)字段中单击DHCPv6，从DHCP服务器接收本地IPv6地址、前缀长度和默认网关。

步骤2.选择所需的IPv6 DNS名称服务器。域名系统(DNS)是一种协议，可帮助设备通过Internet访问其他计算机和专用网络，因为它将域名转换为各自的IP地址。

- 动态 — DNS名称服务器由DHCPv6动态分配。
- 手动 — 允许您手动输入DNS服务器地址。在IPv6 Domain Name Servers字段中输入DNS服务器地址。最多可以配置两个域名服务器。

步骤3.单击“保存”保存配置。

[静态IPv6](#)

IPv6 Addresses

IPv6 Connection Type: ☐ DHCPv6 ☒ Static IPv6

IPv6 Administrative Mode: ☒ Enable

IPv6 Auto Configuration Administrative Mode: ☒ Enable

Static IPv6 Address:

Static IPv6 Address Prefix Length: (Range: 0 - 128, Default: 0)

Static IPv6 Address Status:

IPv6 Autoconfigured Global Addresses:

IPv6 Link Local Address:

Default IPv6 Gateway:

IPv6 Domain Name Servers: ☐ Dynamic ☒ Manual

步骤1.在IPv6连接类型字段中单击静态IPv6，手动将IPv6地址分配给接入点。

步骤2.在静态IPv6地址字段中输入接入点的所需IPv6地址。这是唯一的IPv6地址，网络中的任何其他设备都不应使用它。这是可路由的全局IPv6地址。

步骤3.在Static IPv6 Address Prefix Length字段中输入静态地址的前缀长度。前缀长度是0到128范围内的整数，指定IPv6 IP地址的网络部分。这类似于IPv4中的子网掩码。默认前缀长度为0。

静态IPv6地址状态(Static IPv6 Address Status)提供IPv6地址的状态。IPv6地址的状态分为3类，如下所示

- 运行 — IPv6地址在LAN接口上被验证为唯一地址，可在接口上使用。
- 暂定 — 如果IPv6地址处于暂定状态，则不能使用它来传输或接收普通流量。当为设备分配静态IP地址时，设备会自动启动重复地址检测(DAD)过程。
- 空白（无值） — 未分配IPv6地址。

如果自动分配一个或多个IPv6地址，则显示IPv6自动配置全局地址字段。

IPv6 Link Local Address字段仅显示网段内的本地物理地址。本地链路地址是本地特定的IPv6单播地址，可在使用本地链路前缀FE80::/10的任何接口上自动配置。

步骤4.在Default IPv6 Gateway字段中输入默认网关的IPv6地址。

IPv6 Addresses

IPv6 Connection Type:	☐ DHCPv6 ☒ Static IPv6
IPv6 Administrative Mode:	☒ Enable
IPv6 Auto Configuration Administrative Mode:	☒ Enable
Static IPv6 Address:	2001:DB8:0:ABCD::1
Static IPv6 Address Prefix Length:	48 (Range: 0 - 128, Default: 0)
Static IPv6 Address Status:	
IPv6 Autoconfigured Global Addresses:	
IPv6 Link Local Address:	fe80::ceef:48ff:fe87:4970/64
Default IPv6 Gateway:	2001:DB8:0:0:E000::F/64
IPv6 Domain Name Servers:	☐ Dynamic ☒ Manual
	2001:DB8:0:1:FFFF:1234::5/64
	2001:DB8:0:1:FFFF:5678:5/64

步骤5.在IPv6 Domain Name Servers字段中输入DNS服务器地址。最多可以配置两个域名服务器。域名系统(DNS)是一种协议，可帮助设备通过Internet访问其他计算机和专用网络，因为它将域名转换为各自的IP地址。

步骤6.单击“保存”以保存所做的配置。