Jabra GN

WHITE PAPER

NETWORK WHITEPAPER

NETWORK PROTOCOL FOR PANACAST 40 VBS & PANACAST 50 VBS

IPv4 and IPv6

SUPPORT FOR IPv6

Internet Protocol version 6 (IPv6) is the latest version of the Internet Protocol (IP), which is the system that identifies and locates devices on the internet. IPv6 was developed to replace IPv4, which is running out of addresses due to the growing number of internet users and devices. IPv4 uses 32-bit addresses, whereas IPv6 uses 128-bit addresses, exponentially increasing the number of addresses available for public use. Note that part of the convention for IPv6 is that consecutive zeroes are replaced with a double colon (::) in an address. This is done to simplify long addresses.

IPv4 and IPv6 are supported on both the PanaCast 40 VBS and PanaCast 50 VBS, including IPv6-only networks. Both IPv4 and IPv6 are enabled by default and IPv6 can be disabled on each device. Both PanaCast 40 VBS and PanaCast 50 VBS can utilize SLAAC or DHCP for IPv6 address assignment. IPv4 can utilize DHCP or static.

NETWORK SECURITY

Security measures are identical for both IPv4 and IPv6, and traffic is encrypted for both protocols using Transport Layer Security (TLS) version 1.3. The encryption level depends on the protocol and service used. A variety of security initiatives are used to address security concerns, including threat modeling, secure coding practices, penetration testing, and more.

Note that threats such as address spoofing or rogue router advertisements are handled on the infrastructure level and not on the Jabra devices. Furthermore, additional network traffic security may be put in place for data transmission from service providers, such as Microsoft and Zoom, and are subject to change without Jabra's knowledge.

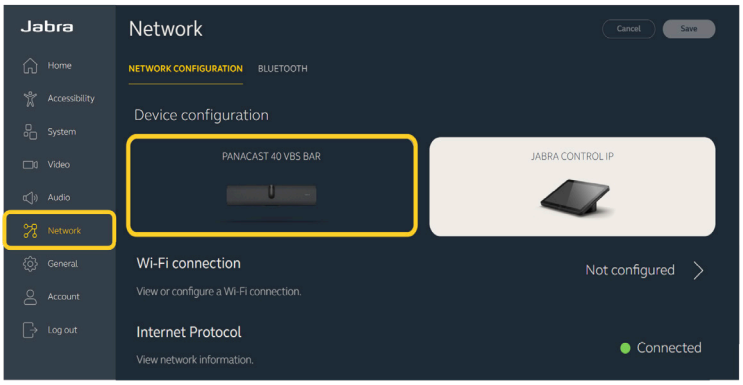
OTHER SECURITY

Only firmware that has been signed by Jabra can be run on the device, preventing unauthorized firmware from being deployed. Additionally, the device has rollback prevention that prevents an attacker from reverting to an earlier firmware version to leverage vulnerabilities that have been patched.

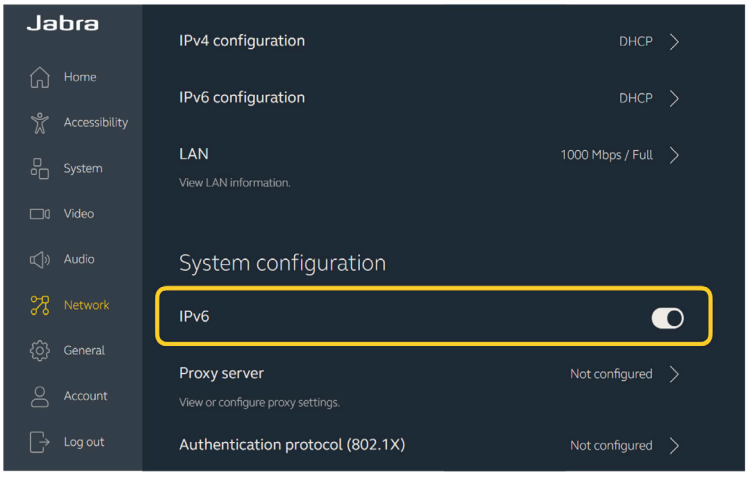
SETUP

After updating the PanaCast 50 VBS to Value Pack 3 Service Release 1, IPv6 will be enabled by default. This means that the device can access both IPv4 and IPv6 addresses right away. If your network has IPv6 enabled but you do not wish to use IPv6 on the device, you can disable the IPv6 toggle.

From the Web Console, navigate to **Network** from the left-hand navigation menu. Select the device you wish to configure on the top.



Scroll to the bottom under **System Configuration** to locate **IPv6** in the System section, and turn the toggle off or back on again. Click **Save** on the upper right.



This can also be done directly through the PanaCast Control by going to **Device Settings**, selecting **Network** from the left-hand navigation menu, and scrolling down to the **System Configuration** section to toggle IPv6 off.