### IPv6 address formats

In addition to this preferred format, IPv6 addresses may be specified in two other shortened formats:

## • Omit leading zeros

Specify IPv6 addresses by omitting leading zeros. For example, IPv6 address 1050:0000:0000:0000:0000:0000:300c:326b may be written as 1050:0:0:0:5:600:300c:326b.

#### • Double colon

An alternative format for IPv6 addresses combines the colon and dotted notation, so the IPv4 address may be embedded in the IPv6 address. Hexadecimal values are specified for the left-most 96 bits, and decimal values are specified for the right-most 32 bits indicating the embedded IPv4 address. This format ensures compatibility between IPv6 nodes and IPv4 nodes when you are working in a mixed network environment.

These two types of IPv6 addresses use this alternative format:

## • IPv4-mapped IPv6 address

# • IPv4-compatible IPv6 address

This type of address is used for tunneling. It allows IPv6 nodes to communicate across an IPv4 infrastructure. For example, 0:0:0:0:0:0:192.1.56.10 and ::192.1.56.10/96 (shortened format).

All of these formats are valid IPv6 address formats. Specify any one of these IPv6 address formats in iSeries<sup>TM</sup> Navigator.

1 of 1 08/22/2010 05:51 PM