Routing design – flat network (aka bridged)

**Upstream**

- 203.0.113.0/30
- 2001:db8:100::/120

**Bridged - Single Broadcast Domain**

- 100.64.0.0/22 – Untagged
- 2001:db8:200::/48 - Untagged

**IPv4 NAT Point**

100.64.0.0/22 is configured to NAT into 203.0.113.2 at the gateway router for all subscribers.

A pool of NAT addresses can also be used if a block of /29, /28, /27, etc is routed in from the provider.

**IPv4/IPv6 gateway**

- IPv4 - 100.64.0.1
- IPv6 - Link local w/ 2001:db8:200::1/128 (Lo)

**IPv4 subscribers** receive addresses in the same subnet as the gateway router.

**IPv6** is still routed even in this design as the home gateway would also have to be bridged to join subscribers to the /48. They are instead handed off a /56 via DHCPv6 PD.