

A decorative graphic at the top of the slide features a grid of light green squares. The grid is contained within a larger, wavy-edged shape that has a gradient from a darker green on the left to a lighter green on the right. The overall effect is a modern, clean aesthetic.

Dual-stack lite broadband deployments

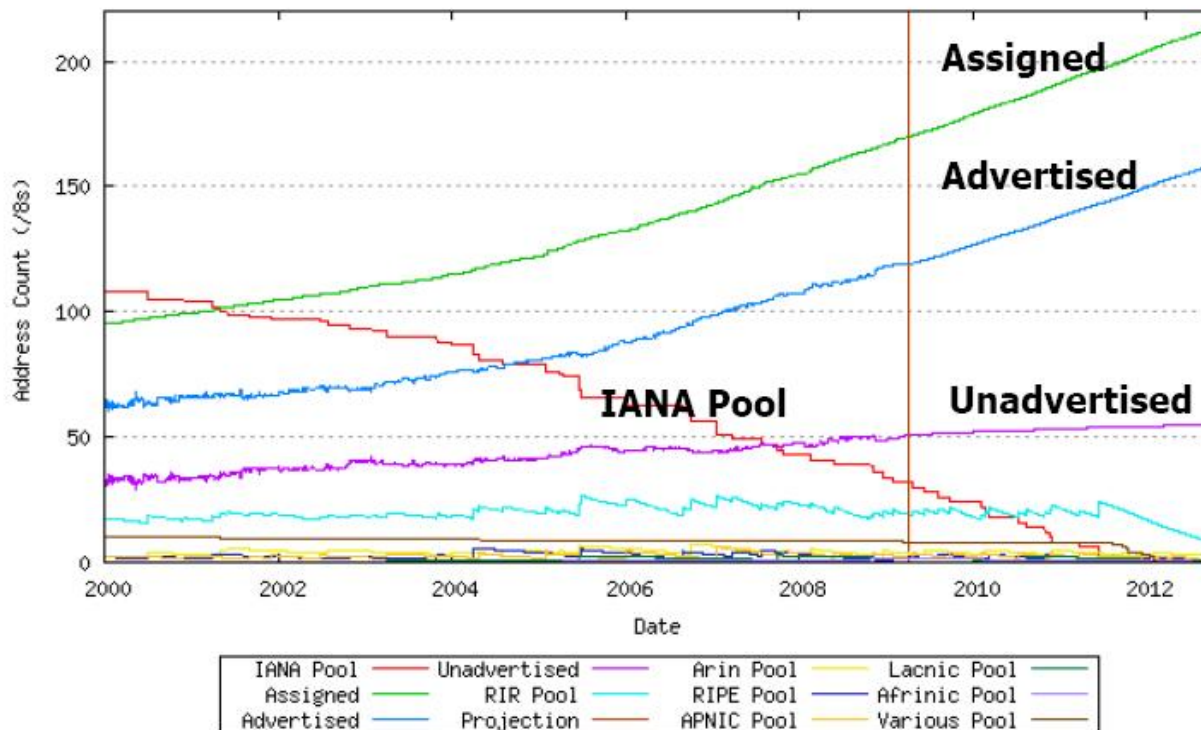
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Agenda

- Introduction
- Dual-stack lite
- Example architectures
- Future works
- Q&A

Introduction

IPv4 Address Exhaustion



Introduction

Problems

- Mix and match of IP enabled devices of home customers
- Most content/services on the Internet are not accessible over IPv6
- Impact on new broadband deployment
- Burden on service providers

Dual-stack lite

Expectation

- Maintaining connectivity to legacy IPv4 devices/networks during the transition to IPv6-only deployments

Dual-stack lite

Main ideas

- Globally unique IPv4 address is shared among many customers
- Transport of IPv4 traffic over an IPv6 only network

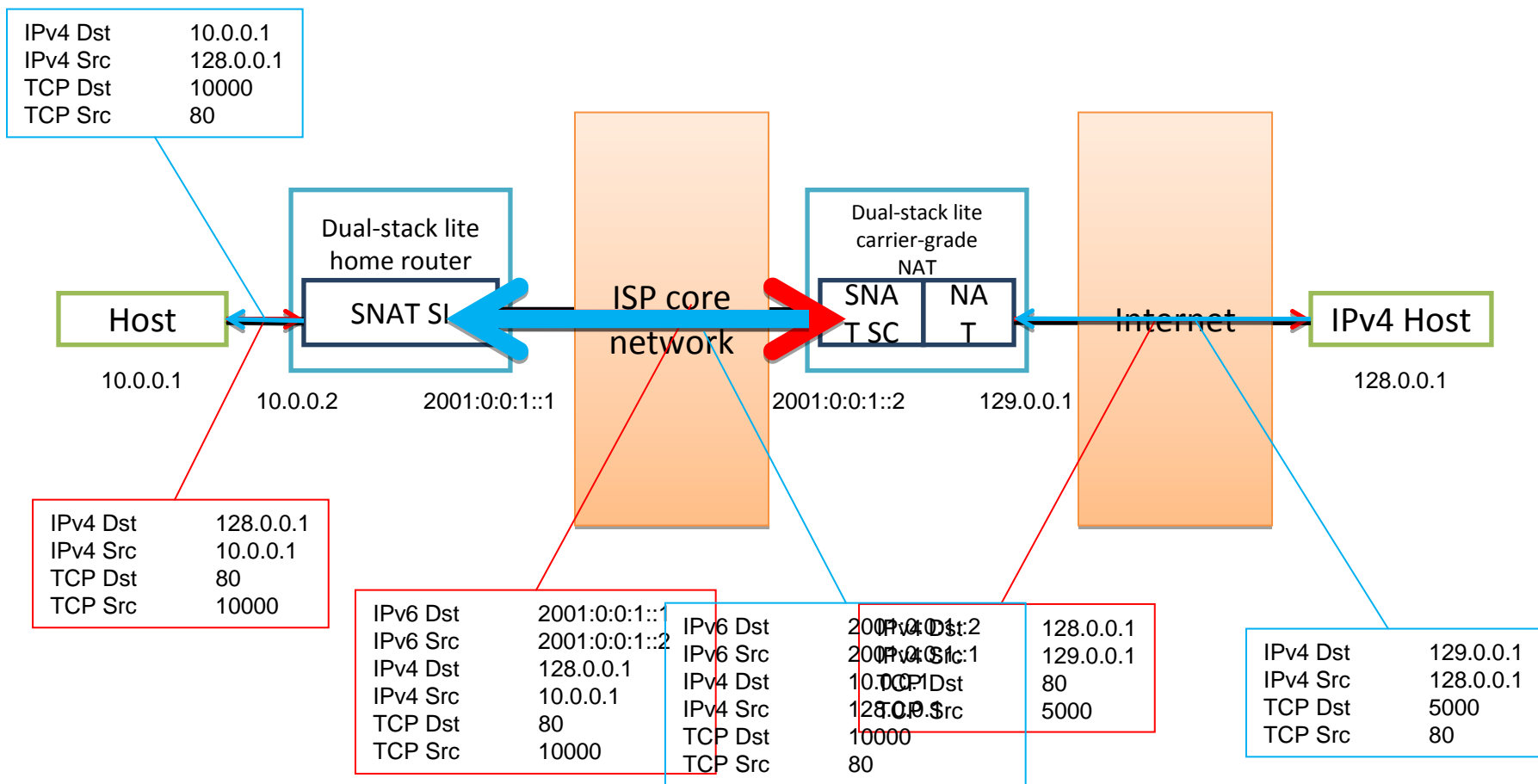
Dual-stack lite

Deployment model

- Dual-stack lite interface
- Dual-stack lite device
- Dual-stack lite home router
- Dual-stack lite router
- Dual-stack lite carrier-grade NAT

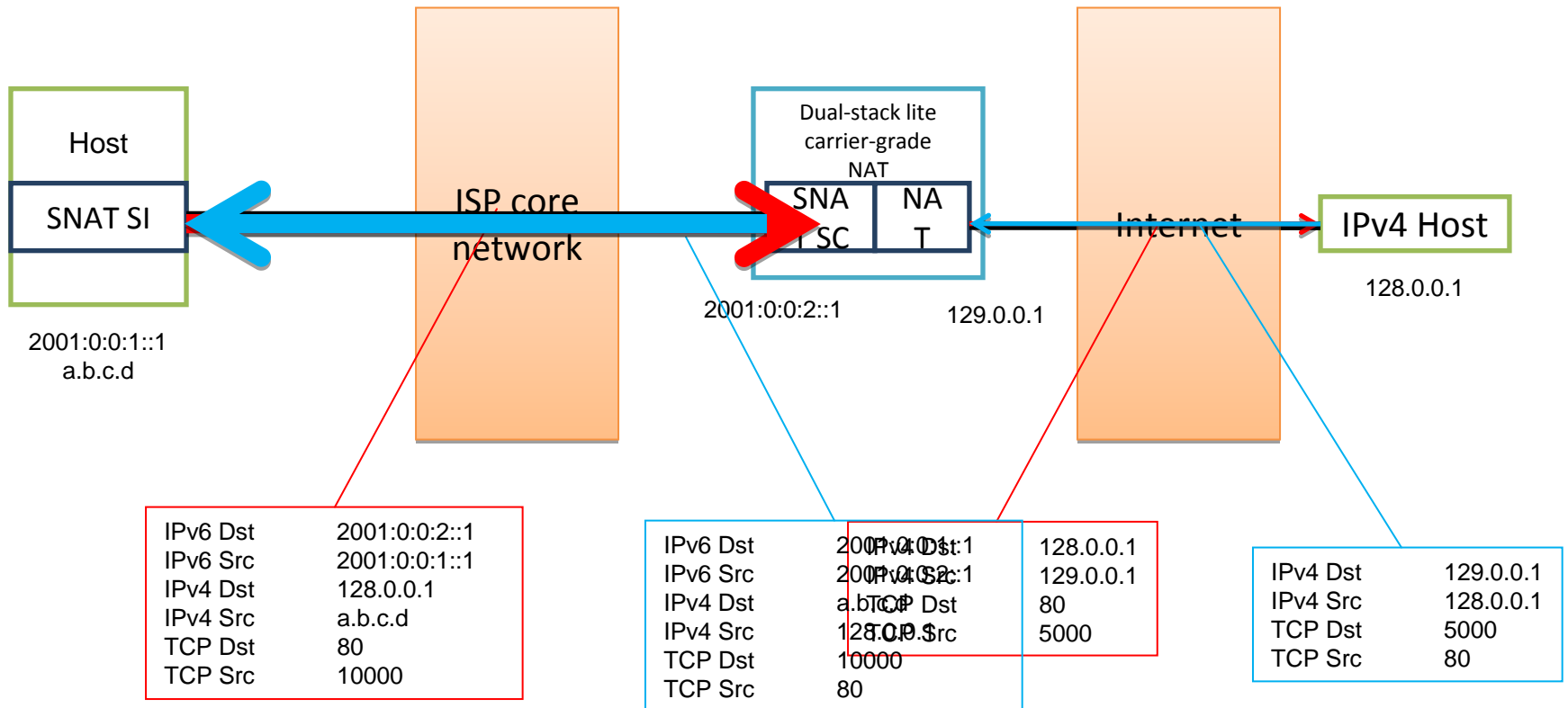
Example architectures

Router based architecture



Example architectures

Host based architecture



Future works

- Multicast
- 3rd Party carrier-grade NAT
- Interface initialization