# 4rd @ Softwire Interim meeting

draft-murakami-softwire-4rd-01 (Satoru Matsushima / Tetsuya Murakami / Ole Trøan)

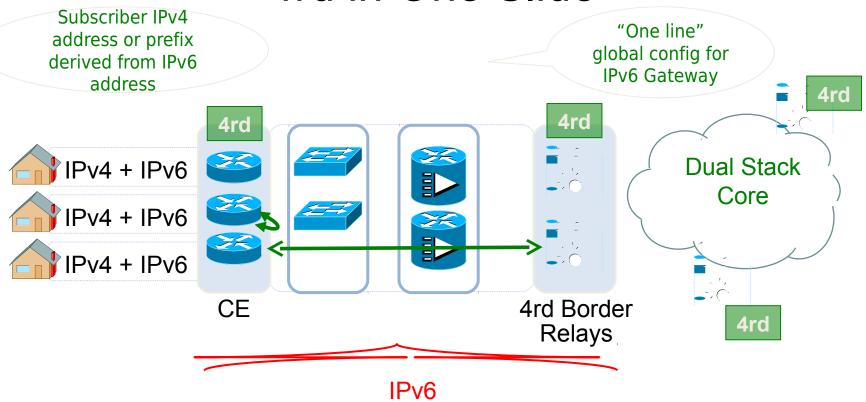
# Draft history

Motivation draft: draft-ietf-softwire-stateless-4v6-motivation

Applicability statement: draft-sun-intarea-4rd-applicability-01

DHCPv6 option: draft-mrugalski-dhc-dhcpv6-4rd-00

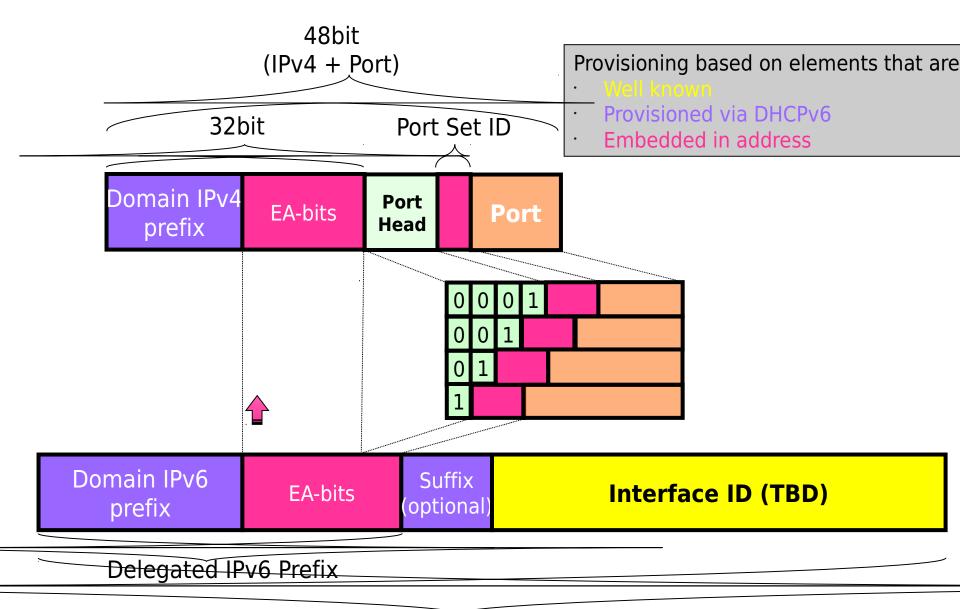
#### 4rd in One Slide



- Native dual-stack IP service to the Subscriber
  Simple, stateless, automatic IPv4-in-IPv6 encap and decap functions
  IPv4 traffic automatically follows IPv6 Routing
- BRs placed at IPv4 edge, addressed via anycast for load-balancing and resiliency

  Defined in draft-murakami-softwire-4rd

## 4RD: Stateless Address Mapping

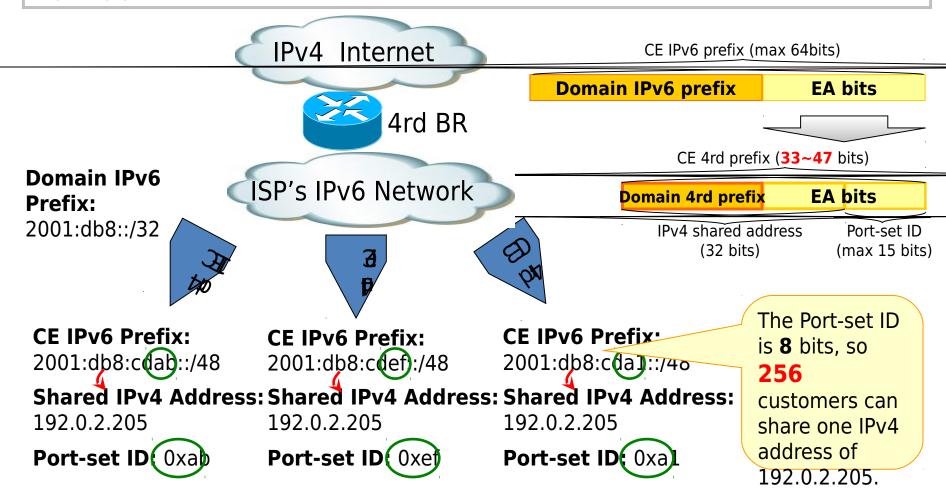


128bit

4

### IPv4 Address Sharing – Port-set ID deriving

If there is a remainder of EA bits, this part will be treated as Port-set ID.



# Port allocation algorithms:

#### Port-sets with heads

- 1. 0001 KKKK KKPP PPPP 64 ports
- 2. 001K KKKK KPPP PPPP 128 ports
- 3. 01KK KKKK PPPP PPPP 256 ports
- 4. 1KKK KKKP PPPP PPPP 512 ports

K = Port-set ID

"Works up to a sharing ratio of 4096 (16 ports per customer)

# Next:

WG adoption