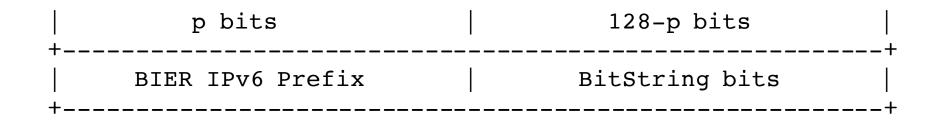
# over IPv6

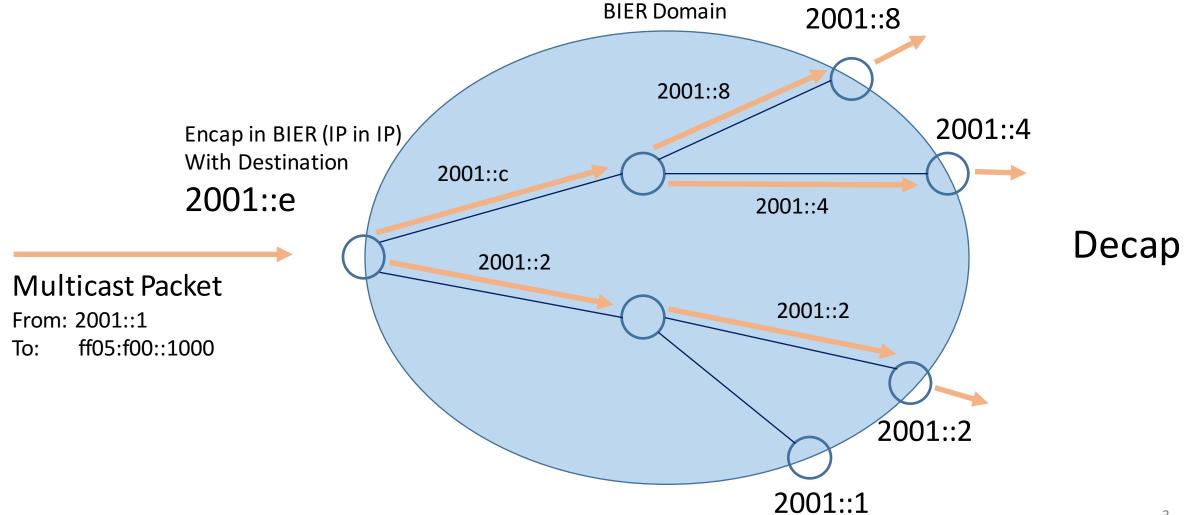
draft-pfister-bier-over-ipv6-01 Update

# In the previous episode of BIER over IPv6

- Some networks will not deploy MPLS
  - We should provide a **future-proof alternative encapsulation** => IPv6
- Leverage IPv6 header
  - Put BIER BitString in the **destination IPv6 address**.
  - No IPv6 extension header

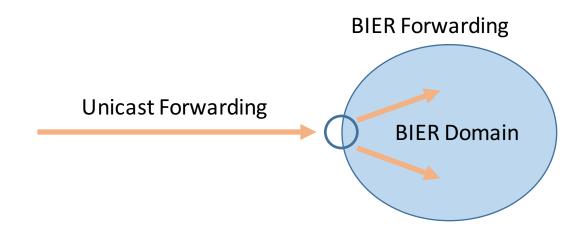


#### In the previous episode of BIER over IPv6



# In the previous episode of BIER over IPv6

- BFERs are assigned a **BIER IPv6 address with a single bit set** 
  - This address also is a **valid unicast address** (Forwarded as BIER, but no duplication).
- BIER IPv6 packets are similar to Unicast IPv6 packets.
  - Can be forwarded as unicast up to the BIER (sub-)domain.



### Outcome of the Interim Meeting

• MPLS and Ethernet encap are identical and will be merged.

- Leaves space for an 'other encap'.
  - BIER over IPv6 offers a different approach with additional features.

# -01 Update

- Sub-Domain and Bit Set ID are implicit to the BIER IPv6 Prefix.
  - Longest prefix match can be used.
  - BitString length is 128 Prefix-Length

	p bits	128-p bits	
	BIER IPv6 Prefix	BitString bits	
++			

- Terminology error: Routing Underlay -> BIER Layer
- Some wording clarification

# -01 Update

- Clearly mention that the BitString length is limited to ~100bits.
  - Architecture draft states:

Every BFIR MUST be capable of being provisioned with an Imposition BitStringLength of 256. Every BFR and BFER MUST be capable of being provisioned with a Disposition BitStringLength of 256. [draft-ietf-bier-architecture-05]

- This looks very specific to the encoding.
  - What about BIER over small-MTU channels ?
  - Is this reasonable statement for future encapsulations and encoding?

#### Next steps

• Consult 6man (on Tuesday).

• Relax BitString length requirements in the architecture draft ?

- Should this be the 'other encap' ?
  - Are there other candidates ?