



Applicability of BIER Multicast Overlay for Adaptive Streaming Services

<https://tools.ietf.org/html/draft-ietf-bier-multicast-http-response-00>

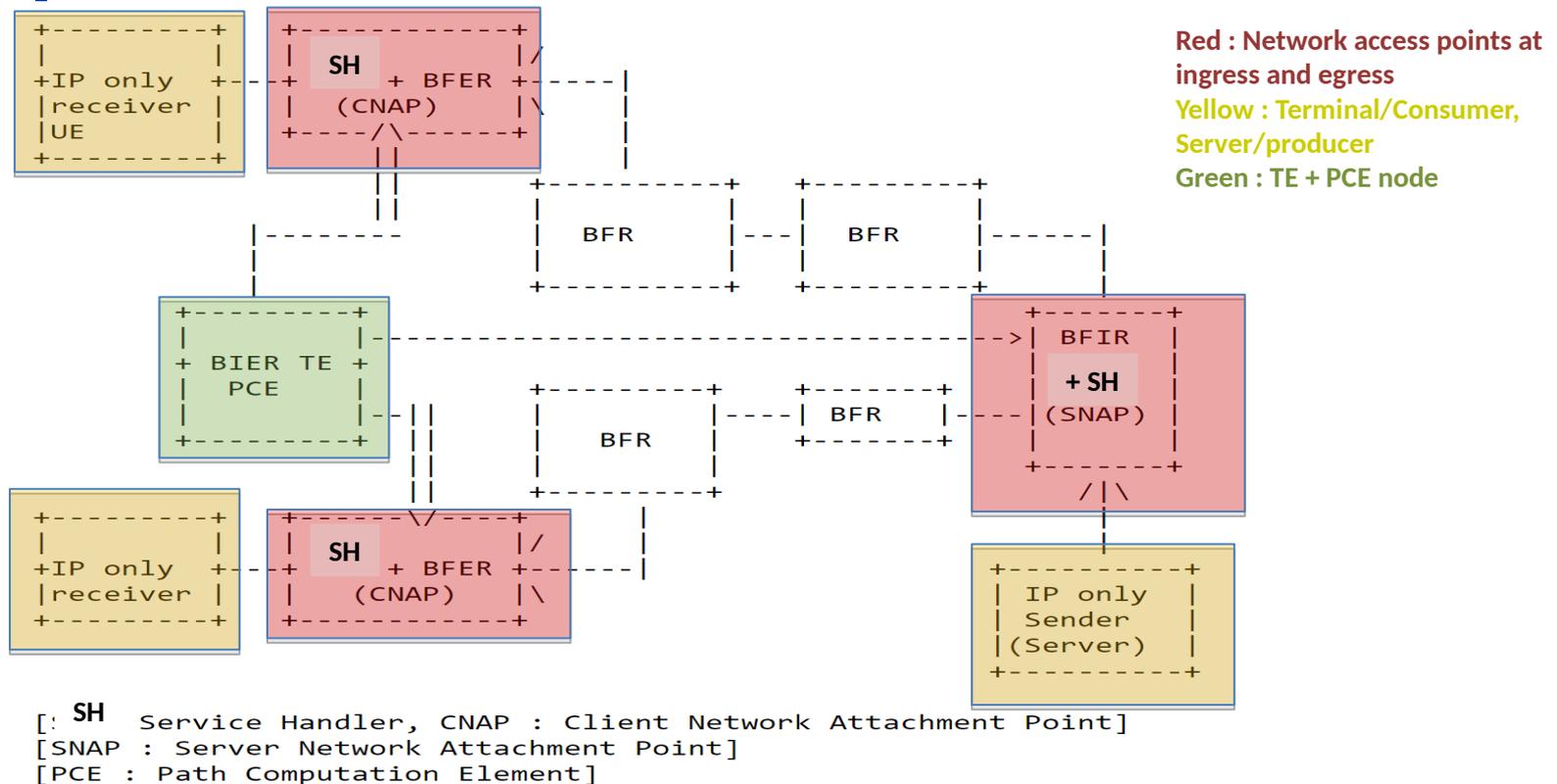
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Recap : BIER Multicast Overlay for HTTP Response

- Adopted as a WG document
 - Thanks to the WG !!!
- Example realization of the use case (<https://tools.ietf.org/html/draft-ietf-bier-use-cases-06#section-3.10>)
- Reference Architecture and Realization of the “multicast overlay” over IPMC and BIER was described
- Pros and Cons for both were considered
- For realization over BIER, operational details including functional elements such as PCE, Service Handler were described

Recap : Reference Architecture over BIER



- The multicast overlay is formed by the BFIR and BFER of the BIER layer and the additional SH (Service Handler) and PCE (Path Computation Element) elements

Details Added

- Deployment options for SH, BFER, BFIR
- Included description of the work done at DVB and BBF
- Updates to the operational procedure
 - Forwarding mechanisms
 - Clarifying the case for reliable transport

Next steps

- Proposed next steps
 - Include other use cases apart from streaming, e.g.
 - File replication in CDNs
 - SW updates over HTTP
 - Connect to ITU-T Network2030 work
 - Add details for operation of the Multicast Overlay
 - Interface functions to BFIR where the PATH ID is mapped to BIER header
 - PCE Registration procedure
 - Protocol between PCE and Forwarder/BFIR/BFER
 - Interfacing with BIER TE