

# BIER Support via ISIS, version -02

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# Major Rework on Sub-Domains



- › Introduction of BIER sub-domains and clarification how they are to be interpreted changed formats significantly
  - ❖ Sub-domain is mapped to a topology, all routers MUST agree
  - ❖ Sub-domain has a single encapsulation (unless architecture doc changes)
  - ❖ Sub-domain has a single tree (or forwarding strategy) type
  - ❖ Any router not advertising enough labels to cover all BFERs is ignored
- › Each router advertises subdomains with label range `_and_` optional tree type (omitting tree type = SPF)

# Suggestion of BIER sub-TLV Version



- › BIER sub-TLV version with ‘backwards’-compatibility bit
- › Allows to deploy new BIER sub-sub-TLVs on same sub-TLV format marking new version as ‘compatible’ or not
- › Allows to deploy extensions to BIER that perform additional functionality amongst the set of ‘higher version’ routers
  - May choose to fall back to old protocol version or run ‘newer’ version (with special sub-sub-TLVs) indicating ‘compatibility’ with lower versions