
YANG Data Model for IPv4-in-IPv6 Software Configuration and Management

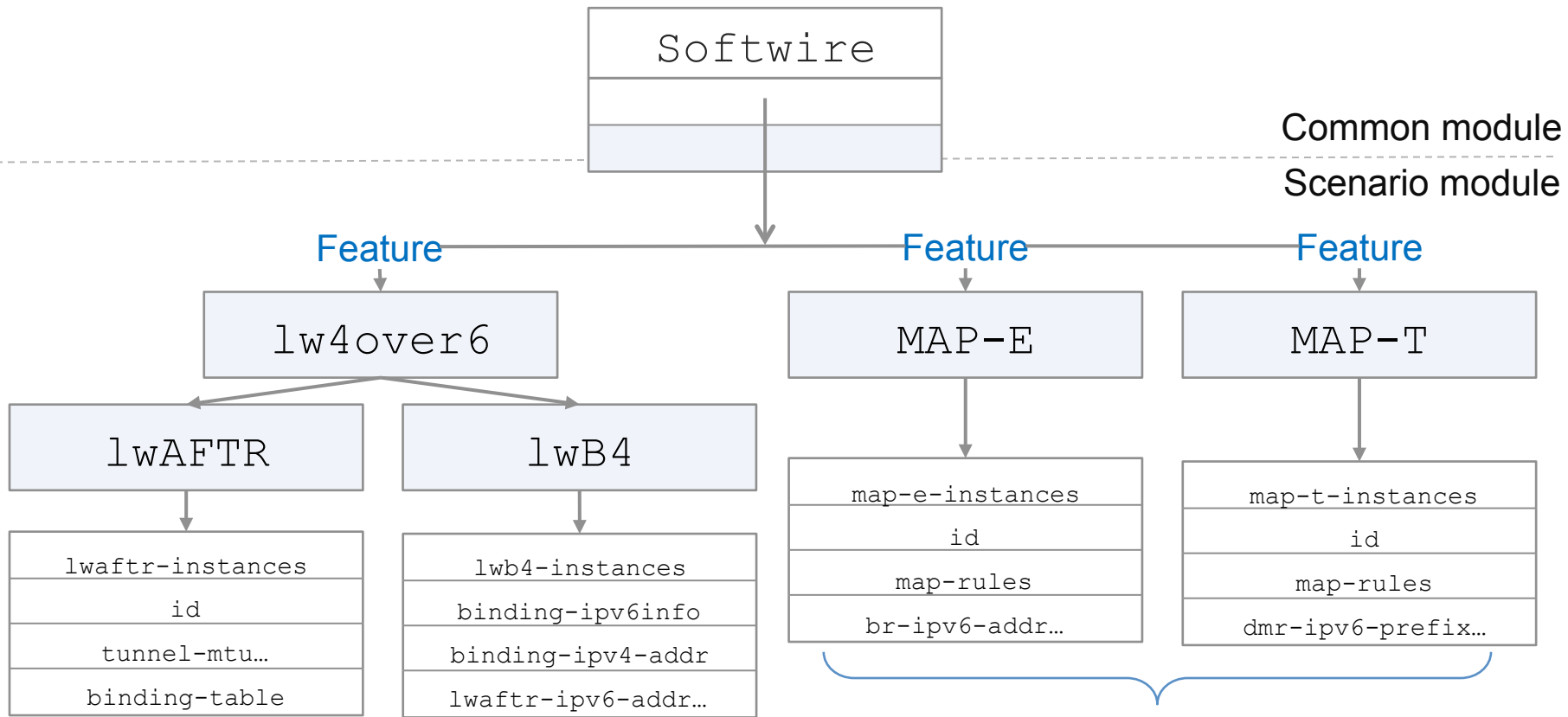
draft-sun-software-yang-04

IETF94 Yokohama

Detailed changes since IETF93

- Reference [I-D.sivakumar-yang-nat] for the NAT function
- Change the type of “fragment-mru” to “uint16”
- Omit “tunnels” list: one tunnel for each instance
- Use forwarding flag for the map rule type
 - Compliant to the MAP base document [RFC7596]
- Provide “binding-ipv6info” (union type) in lwAFTR instances
- Fix YANG model grammar errors, pass YANG validator (with warnings)
- Make the “(lwaftr-) br-ipv6-address” as mandatory node

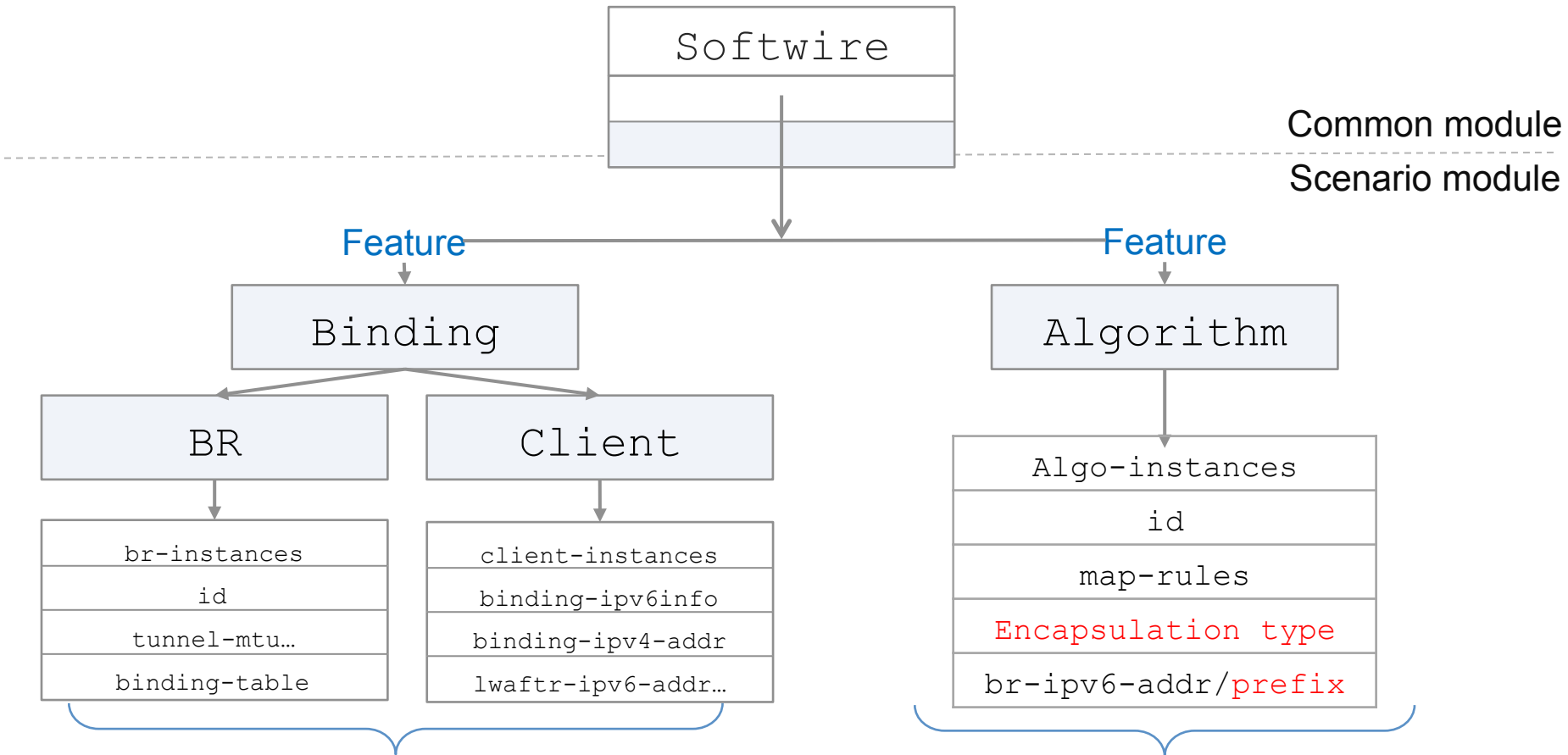
Model structure in version -04



- Lw4o6 YANG model is more **'device-based'**, so the model is divided into client and concentrator

- MAP-E/ MAP-T in separate containers, but CE and BR share the **same** configuration parameters

Model Structure – Possible Revision



- Covers the configuration for lw4o6 and MAP in 1:1 mode (offset=0, PSID explicit)

- MAP-E/ MAP-T differentiated by data plane type (encap/translate)
- CE and BR share the **same** configuration parameters

Other Possible Extensions

- Configuration of fragmentation behavior configuration - is it needed?
 - Software RFCs reference a number of other RFCs on this topic
 - In some cases, the behavior is recommended
 - ICMP error generation is configurable
- Propose that these items are addressed in the next revision

Status and next steps

- Adopt it as a WG item?
- Comments and suggestions are welcome!