YANG Data Model for IPv4-in-IPv6 Softwire Configuration and Management
draft-sun-softwire-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?
  – Softwire 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!