Service Topology Info Model
draft-hares-info-model-service-topology
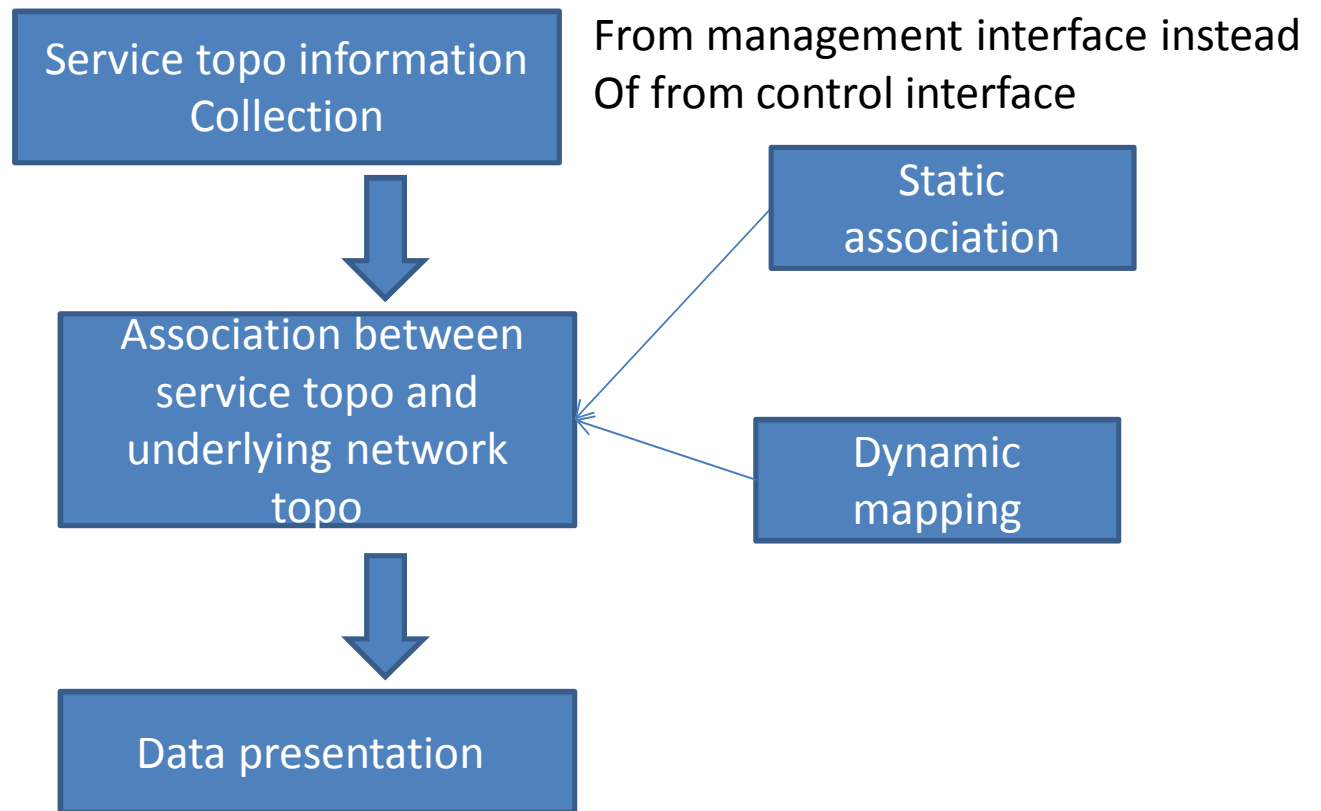## draft-hares-dunbar-i2rs-sfc-policy-im

Zitao Wang

Susan Hares

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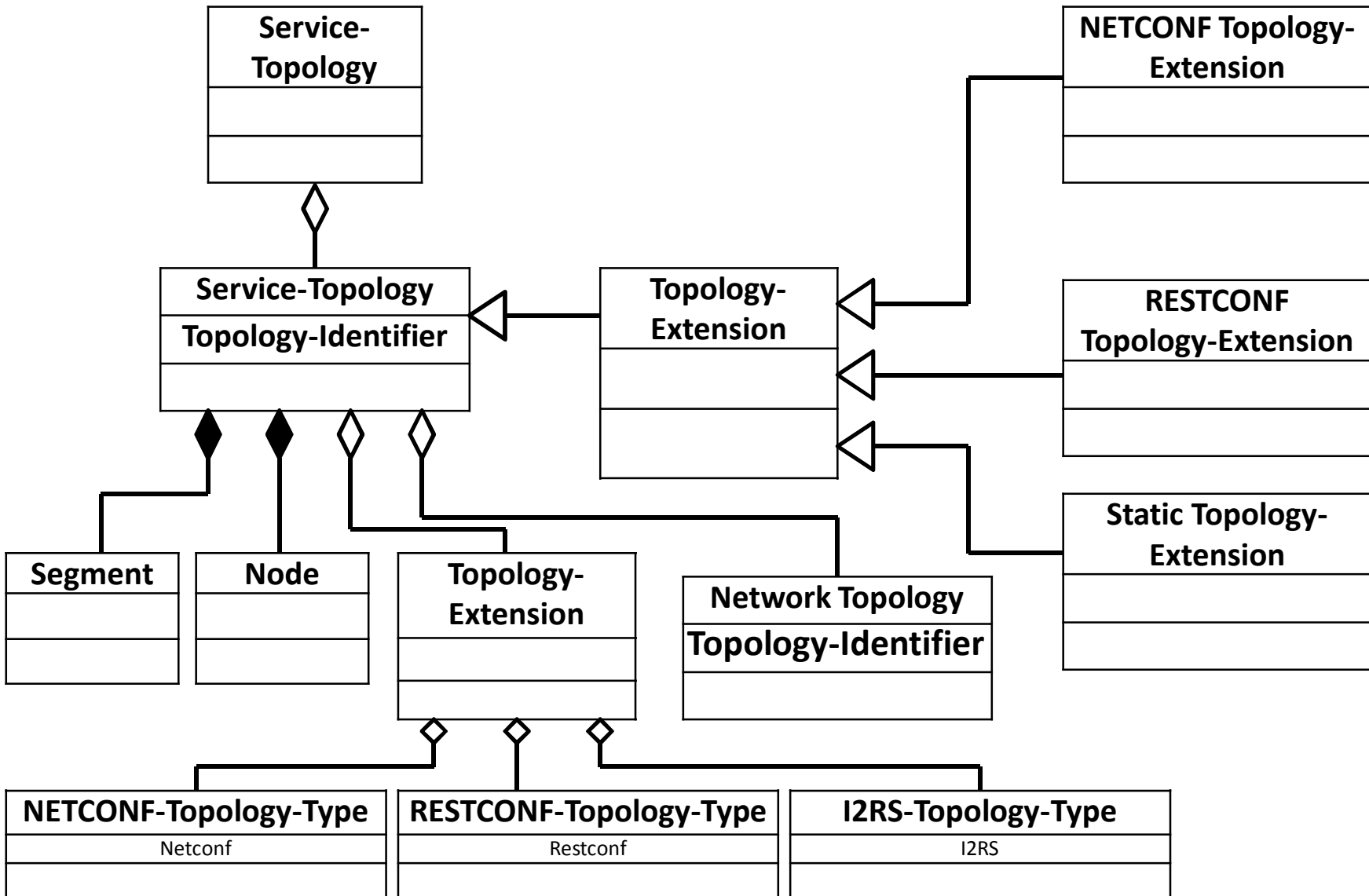Linda Dunbar

Jianjie You

Rationale

˝ Procedure for service topology creation

Service topo information Collection

From management interface instead Of from control interface

Association between service topo and underlying network topo

Static association

Dynamic mapping

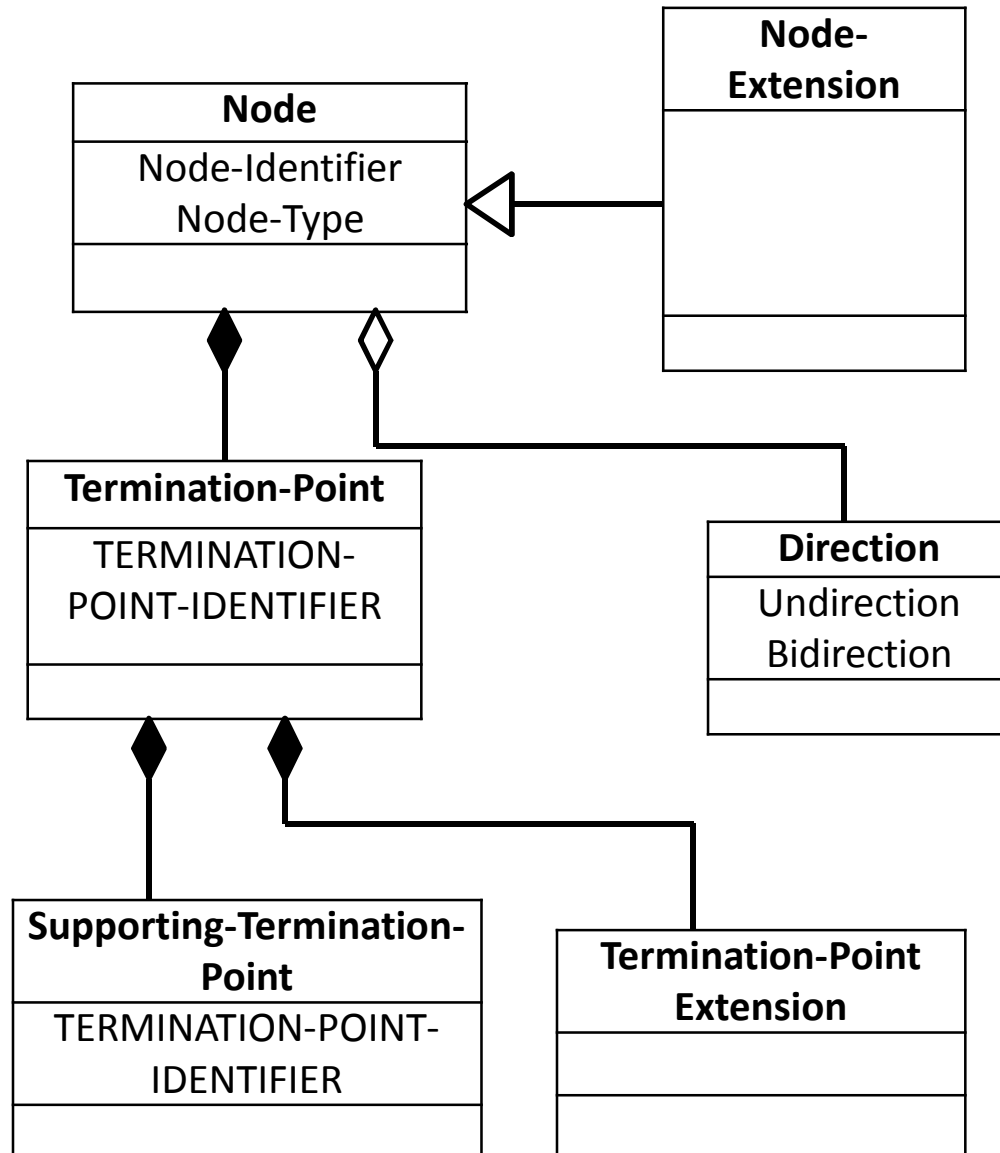Data presentation

Service Topology data model structure

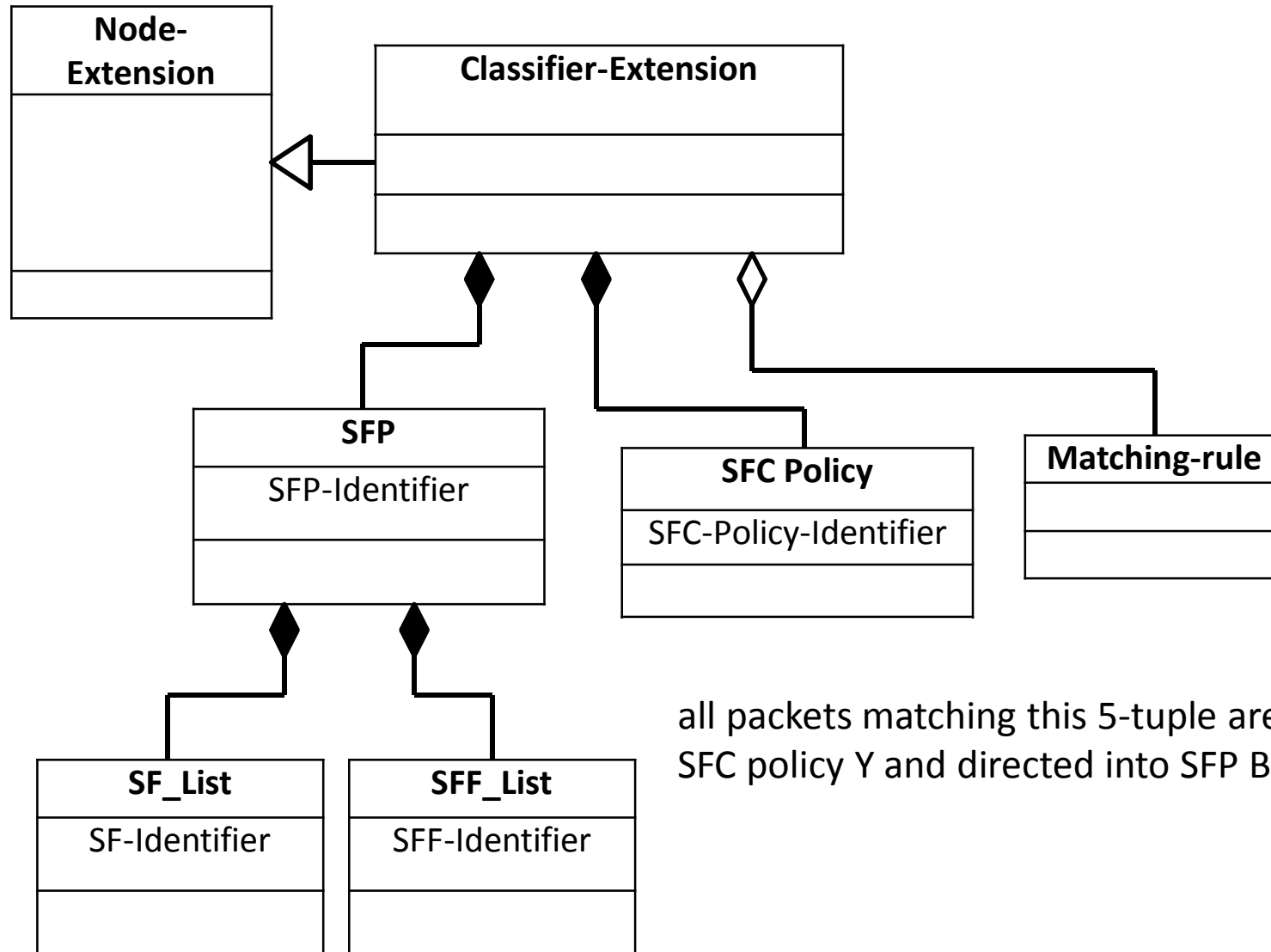# Service Topology data model: Segment
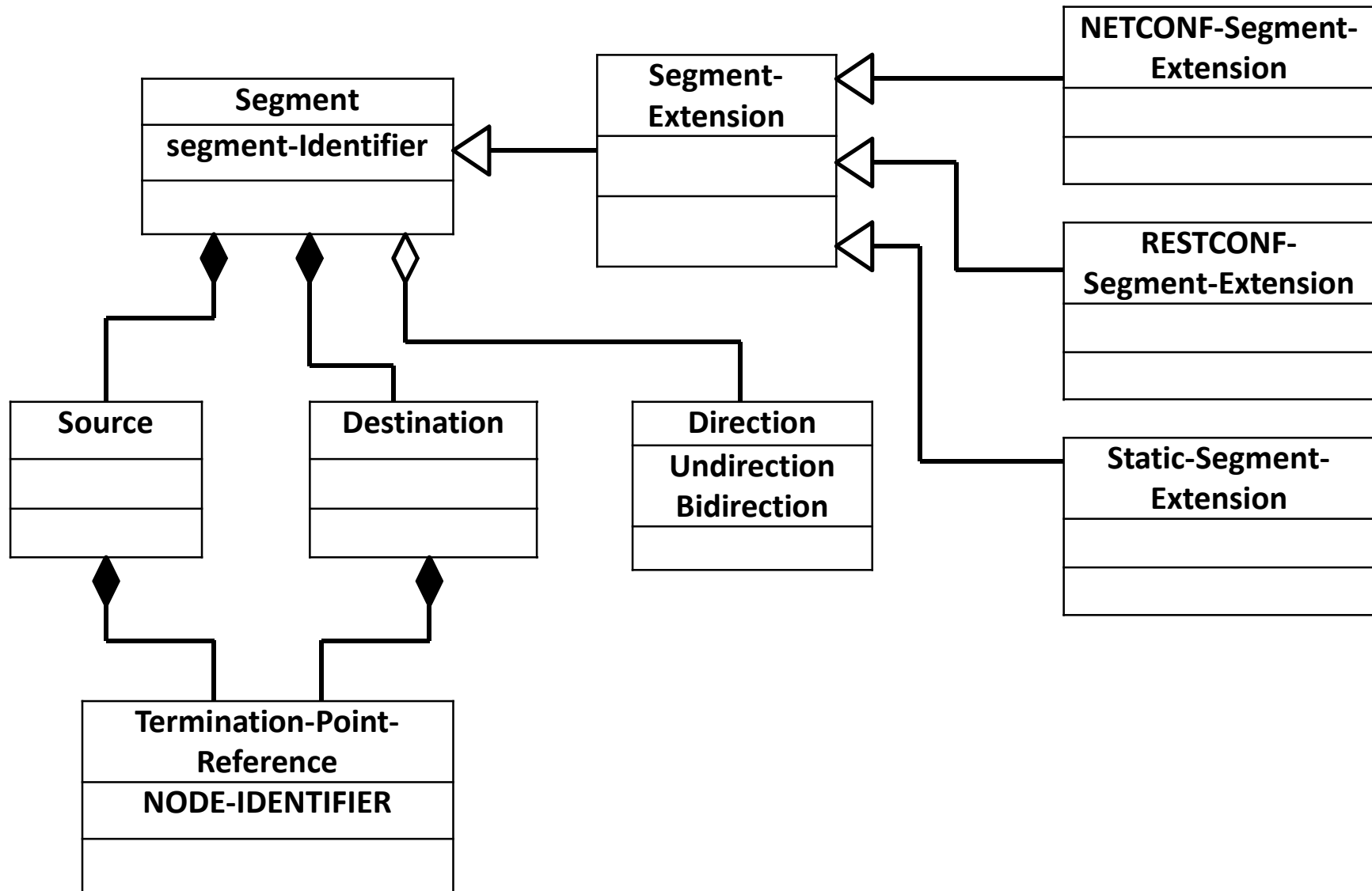
Service Topology data model: Node

Example1: CLASSIFIER-Extension

Node-Extension

Classifier-Extension

SFP

SFP-Identifier

SFC Policy

SFC-Policy-Identifier

Matching-rule

SF_List

SF-Identifier

SFF_List

SFF-Identifier

all packets matching this 5-tuple are subject to SFC policy Y and directed into SFP B.

Example2:SF-Enable-Node-Extension

Node-Extension

SF-Enable-Node
- SF-chain-index
- SF-Identifier
- SF-Type
- Customer-ID

SF-Inventory-Data

SF-Capability
- Supported-ACL-number
- Virtual-context-number
- Supported-packet-rate
- Supported-bandwidth

SF-Node-Locator

Support-Context-Type
- SF-NODE-IDENTIFIER

SF-Type
- Firewall
- Load-balancer
- NAT44
- NAT64
- DPI

SF-Enable-Node-Extension
- FIB-size
- RIB-size
- MAC-forwarding-table-size
- Packet-rate-utilization
- Bandwidth-utilization-per-CoS
- Packet-rate-utiliztion-per-CoS
- Memory-utilization
- Available-memory
- RIB-utilization-per-address-family
- CPU-utilization
- Available storage
- Bandwidth-utilization
- Flow-resource-utilization-per-flow-type

Example3: SFF-Enable-Node-Extension