Ingress Processing
- Error detection and security verification
- Classification or demultiplexing
- Traffic measurement and policing
- Address lookup and packet forwarding
- Header modification and transport splicing
- Reassembly or flow termination
- Forwarding, queueing, and scheduling

Egress Processing
- Addition of error detection codes
- Address lookup and packet forwarding
- Segmentation or fragmentation
- Traffic shaping
- Timing, scheduling, queueing, and buffering
- Header modification
- Output security Processing