

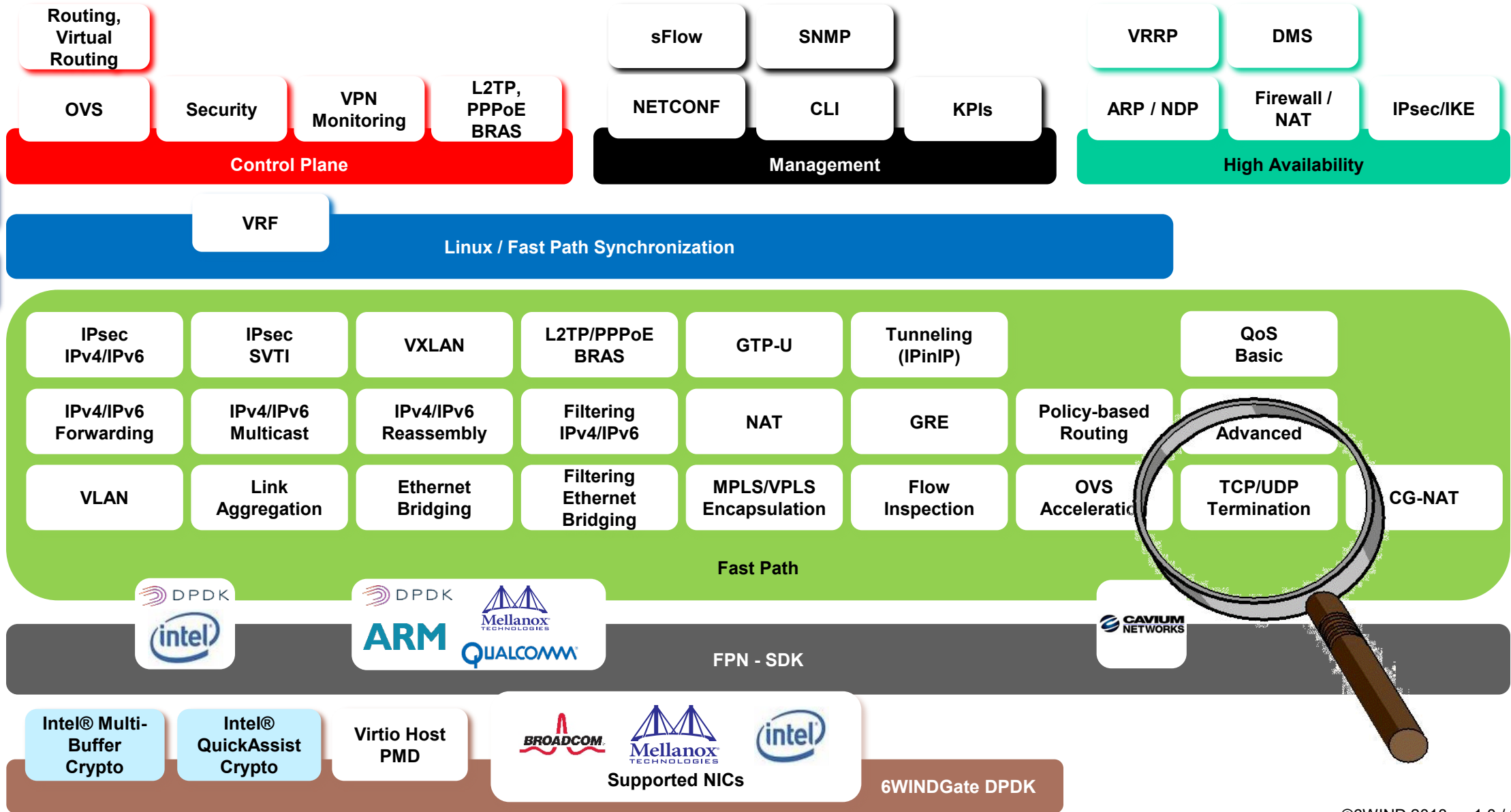
6WINDGate TCP



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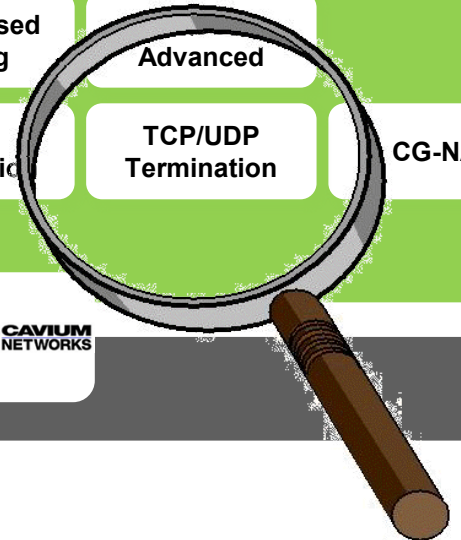
6WINDGate Accelerated Layer 2-4 Networking Stacks

Distributed Architecture



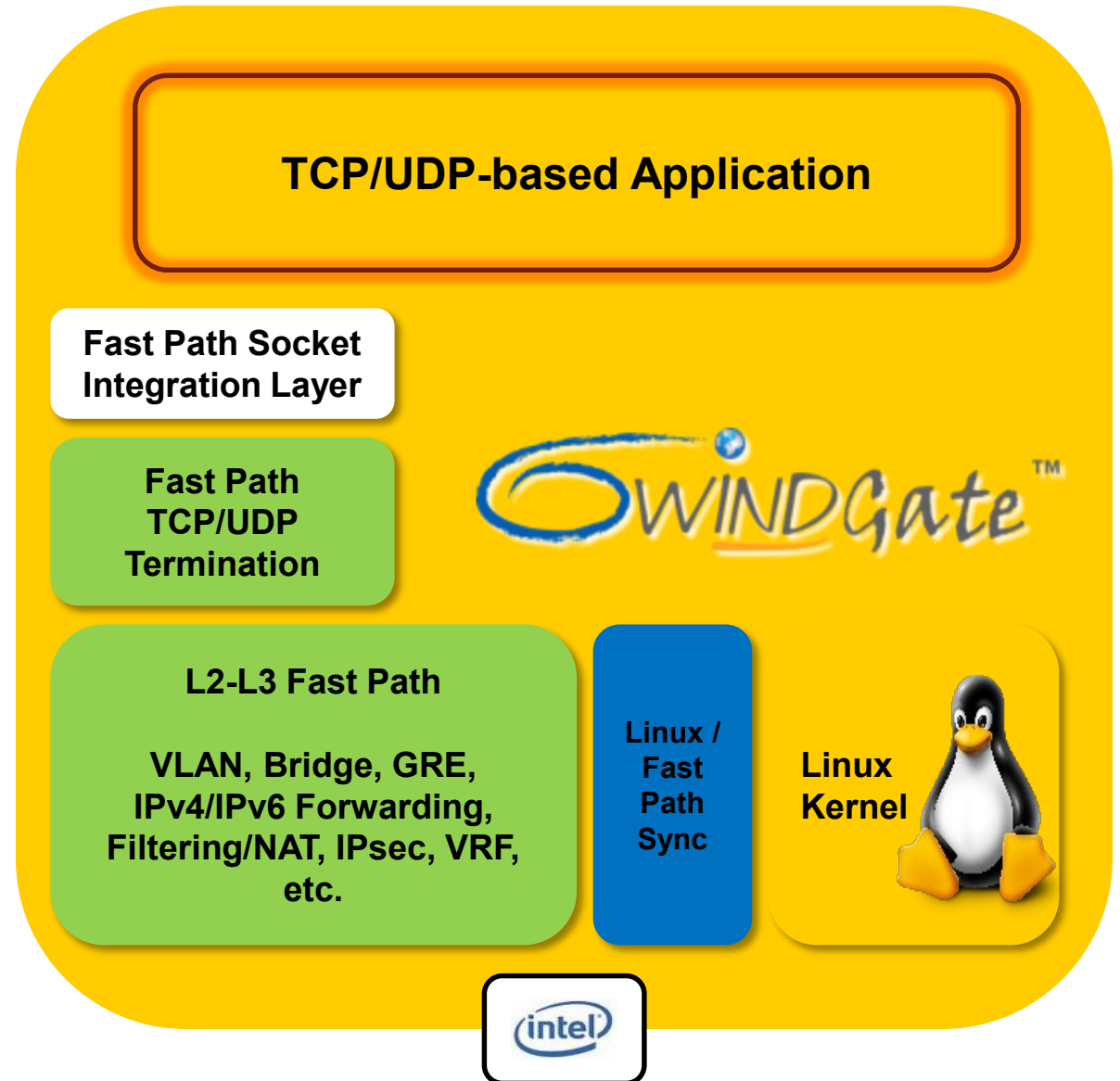
Control Plane Extensions

Fast Path Extensions

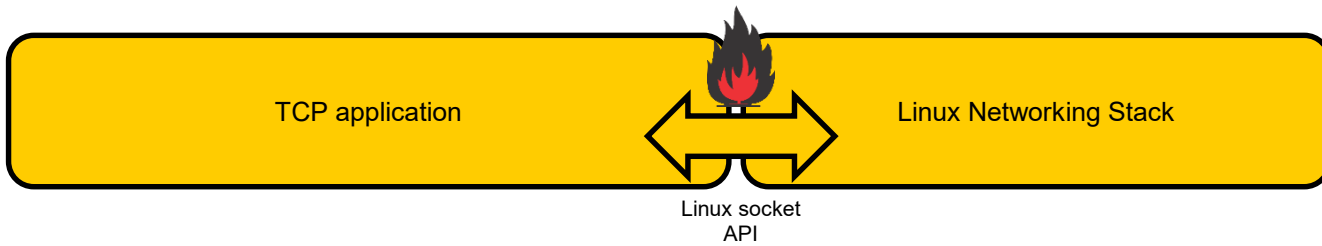


6WINDGate TCP/UDP Termination

- **Software**
 - 6WINDGate source code license including the TCP modules and others 6WIND modules depending on the customer use case
- Integrated with L2-L3 6WINDGate modules
- TCP stack configuration through dedicated CLI
- TCP/UDP-based application must be integrated with Fast Path Socket Integration Layer

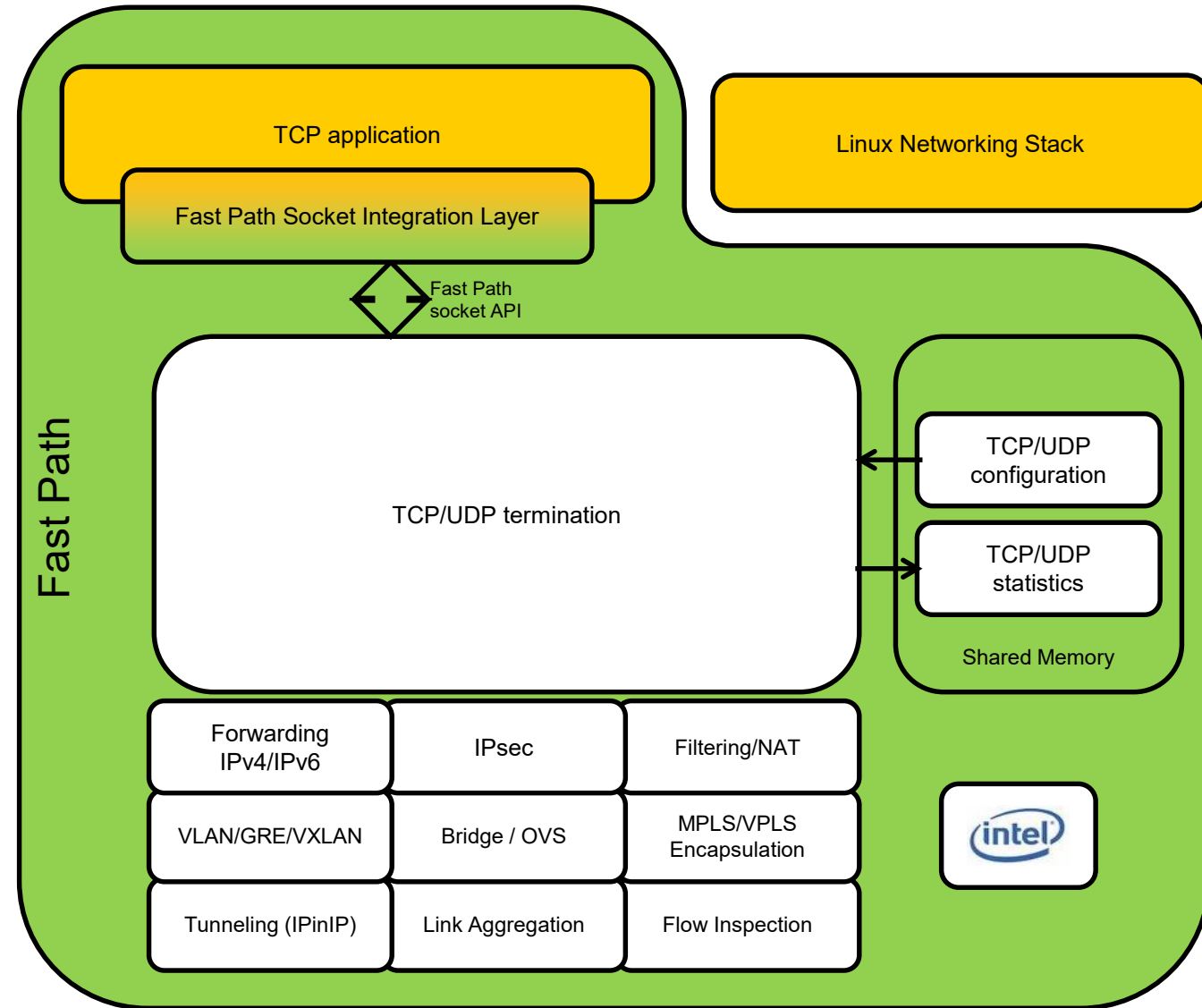


Architecture



- TCP application performance suffers from Linux networking stack bottlenecks

Architecture



- **Fast Path TCP/UDP termination**
 - TCP/UDP protocols are processed in the Fast Path
 - Full featured TCP/UDP stack using BSD-like socket API
 - Timers are re-designed to get more scalability
 - Locks are removed
 - Memory footprint is reduced

- **Performance**
 - Scale: 8M active concurrent TCP sockets
 - Throughput: 40+ Gbps
 - CPS: 1.47M TCP connections per second
 - TPS: 7.1M TCP transactions per second
 - Latency TTFB: 24 μ s

- **Optimized Fast Path TCP/UDP socket implementation**
 - Using event-based socket callbacks
 - Latency of socket calls is minimized

Thank You
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