

Implementation and Testing

Geographic addressing and routing for vehicular communications

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Outline



- Introduction
- Software architecture and modules
- Individual modules
- Testing

Introduction



Implementation overview



- Two-phase development
 - ◆ Initial specification D2.1 → Intermediate development
 - ◆ Intermediate development → Final specification D2.2
 - ◆ Final specification D2.2 → Final development

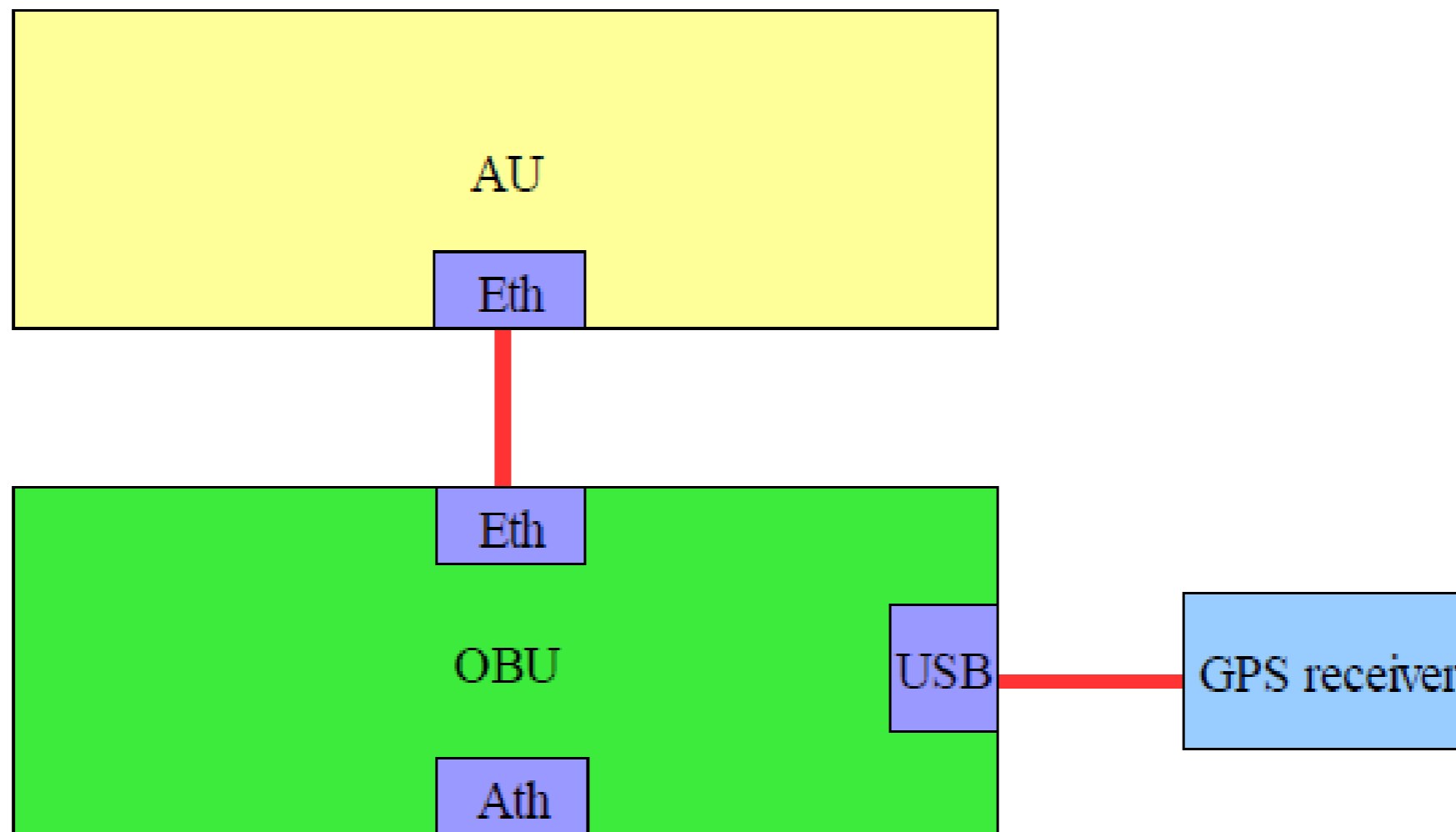
- Partner contributions
 - ◆ NEC
 - ◆ Hitachi
 - ◆ INRIA
 - ◆ Lesswire
 - ◆ IMDEA

Development enviroment



- Linux kernel 2.6.19 or later
- C/C++
- Standard PC

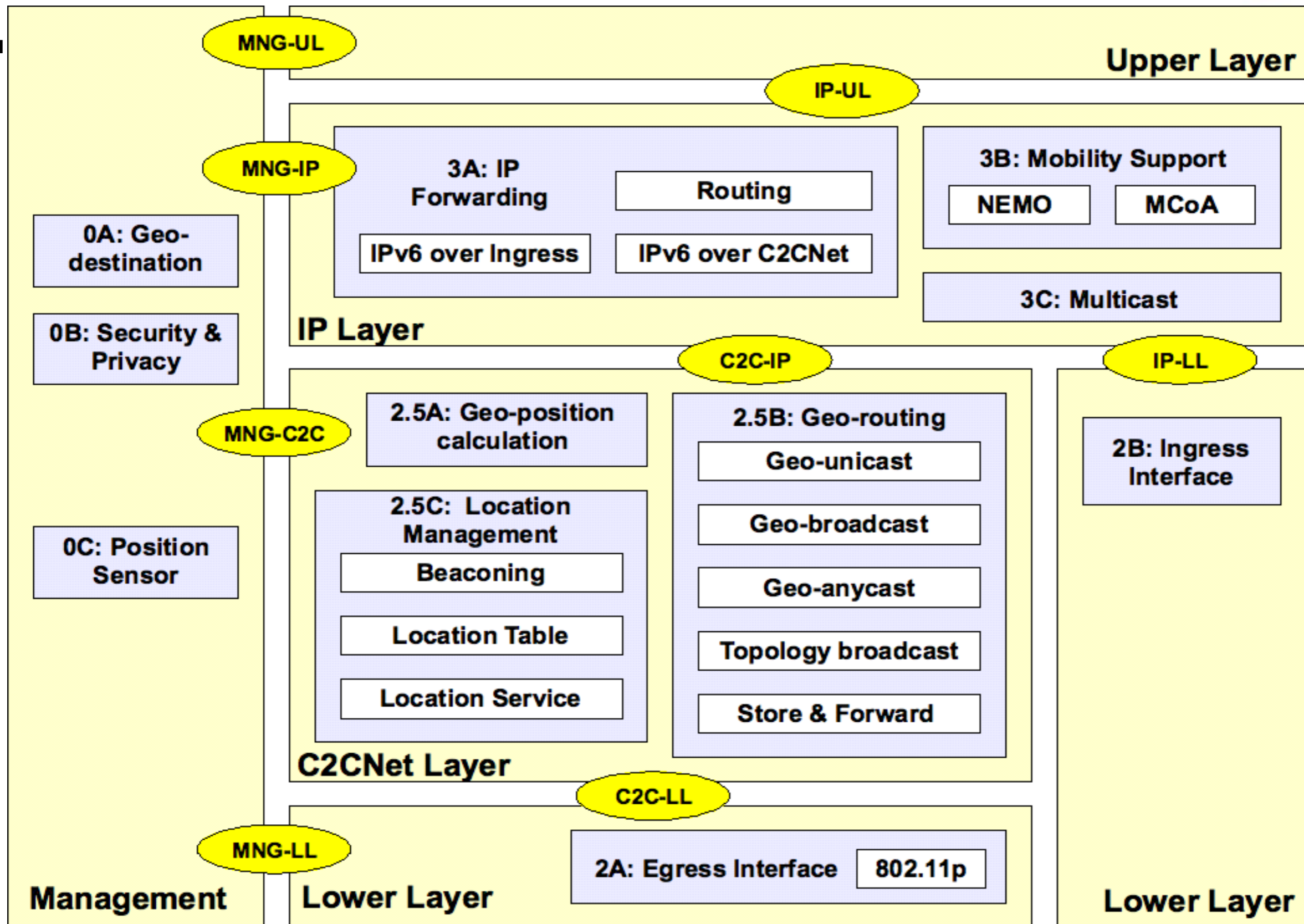
- Reference configuration



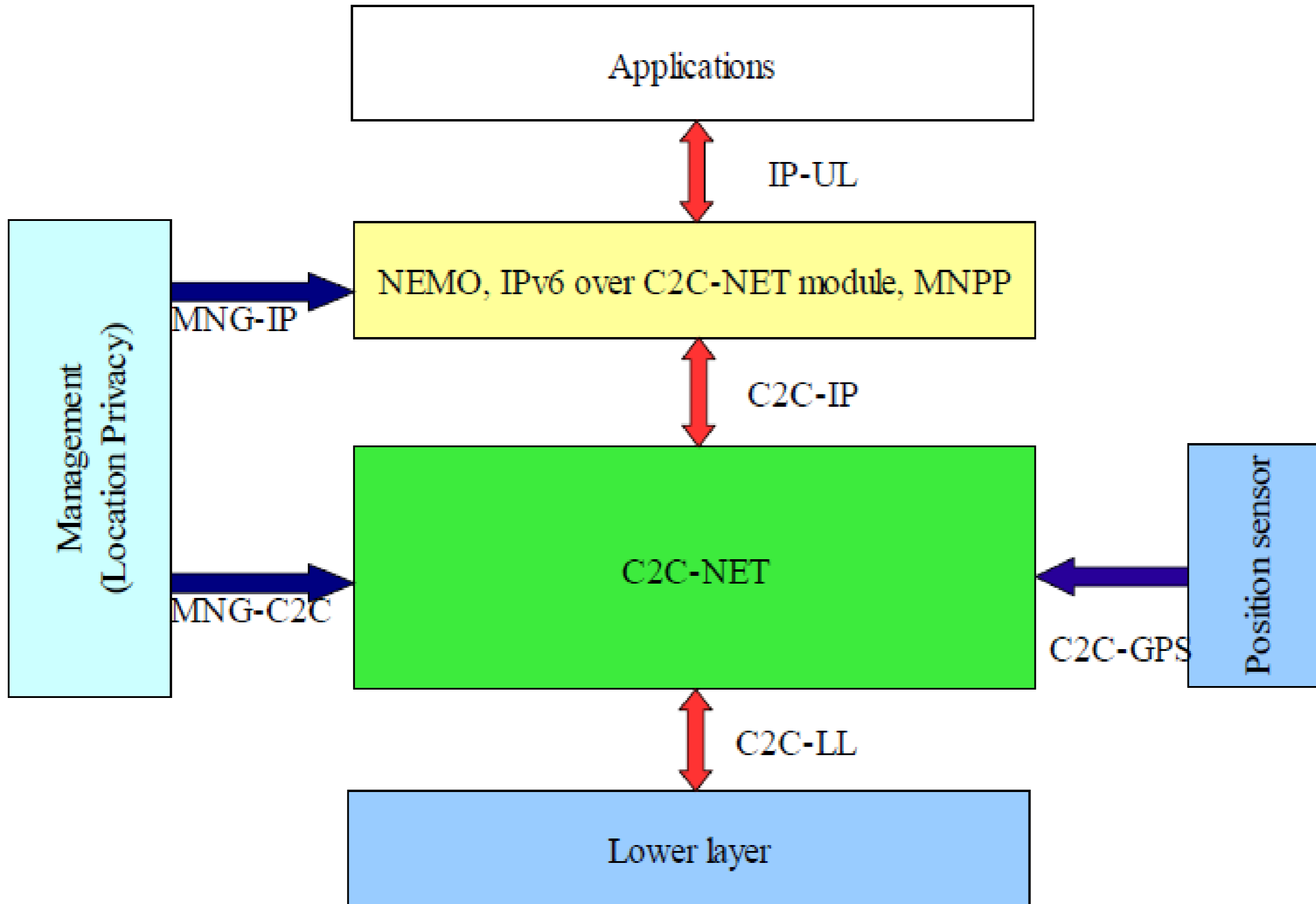
Software Architecture and Modules



GeoNet main functional modules and SAPs



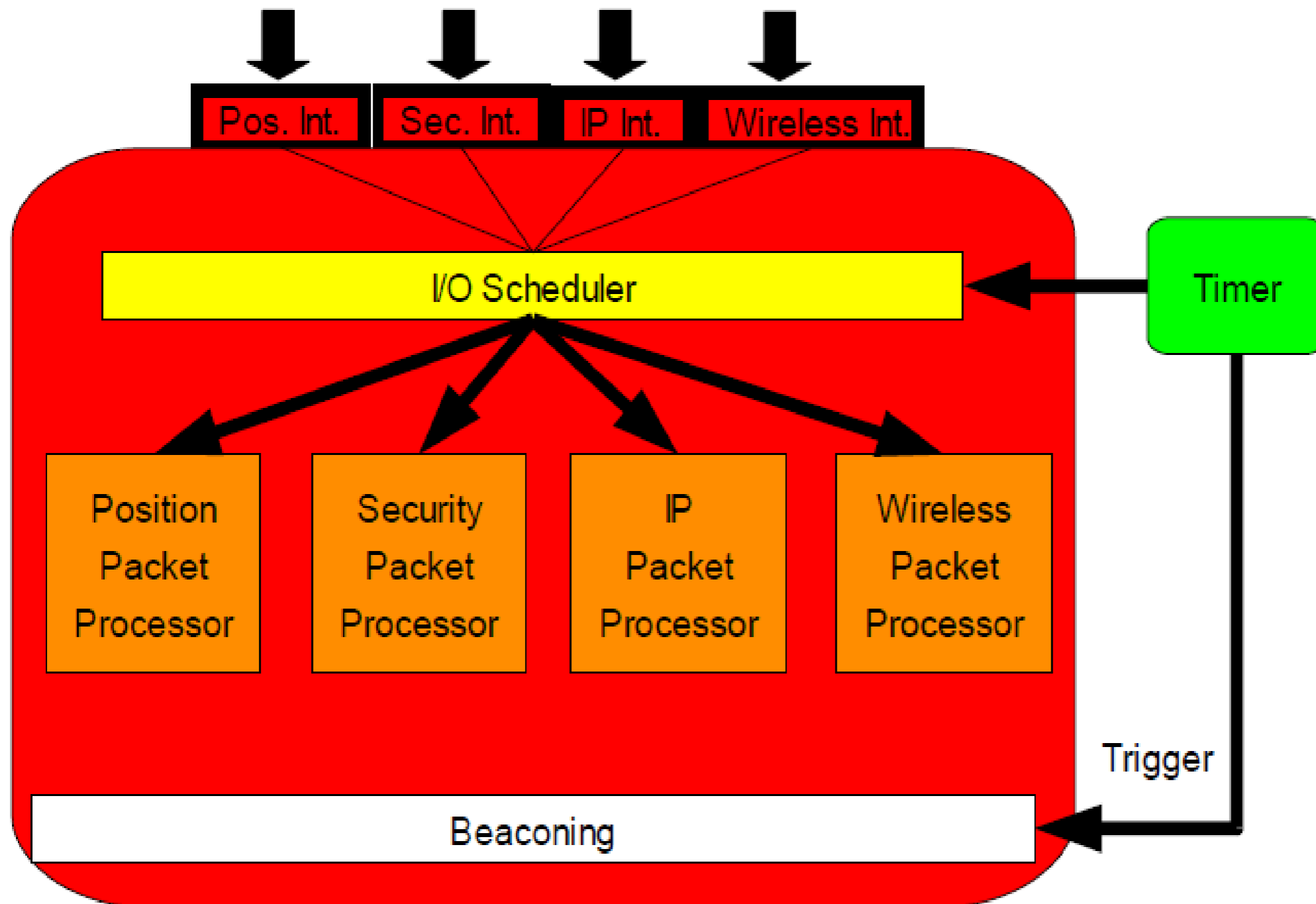
GeoNet's software modules and interfaces



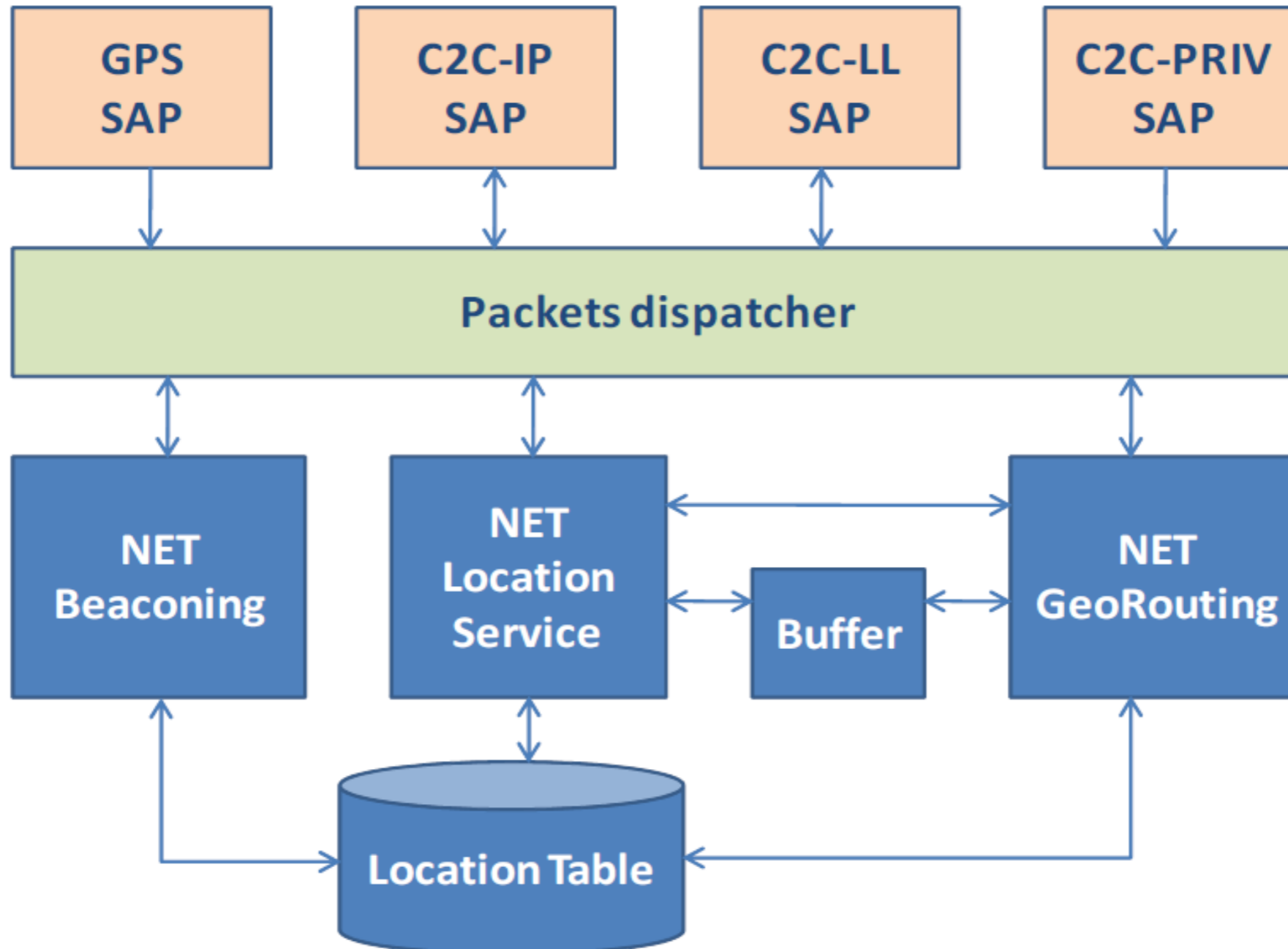
Individual modules



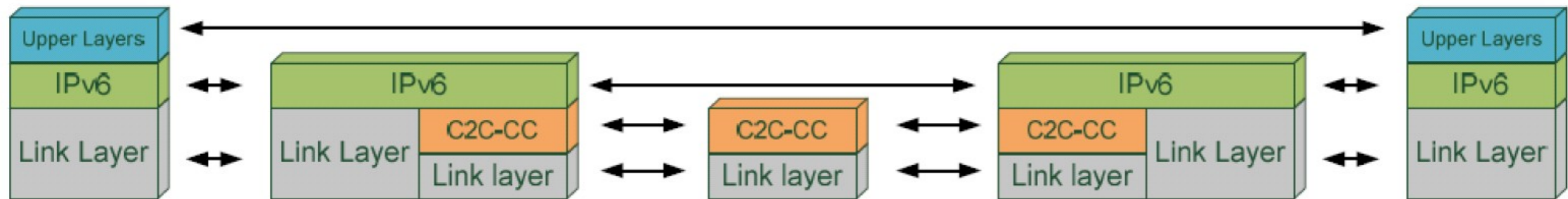
C2CNet implementation 1



C2CNet implementation 2



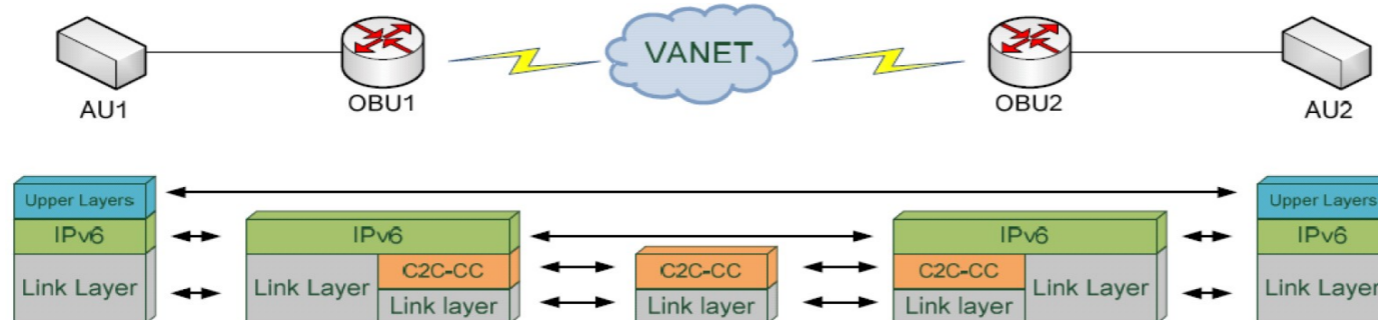
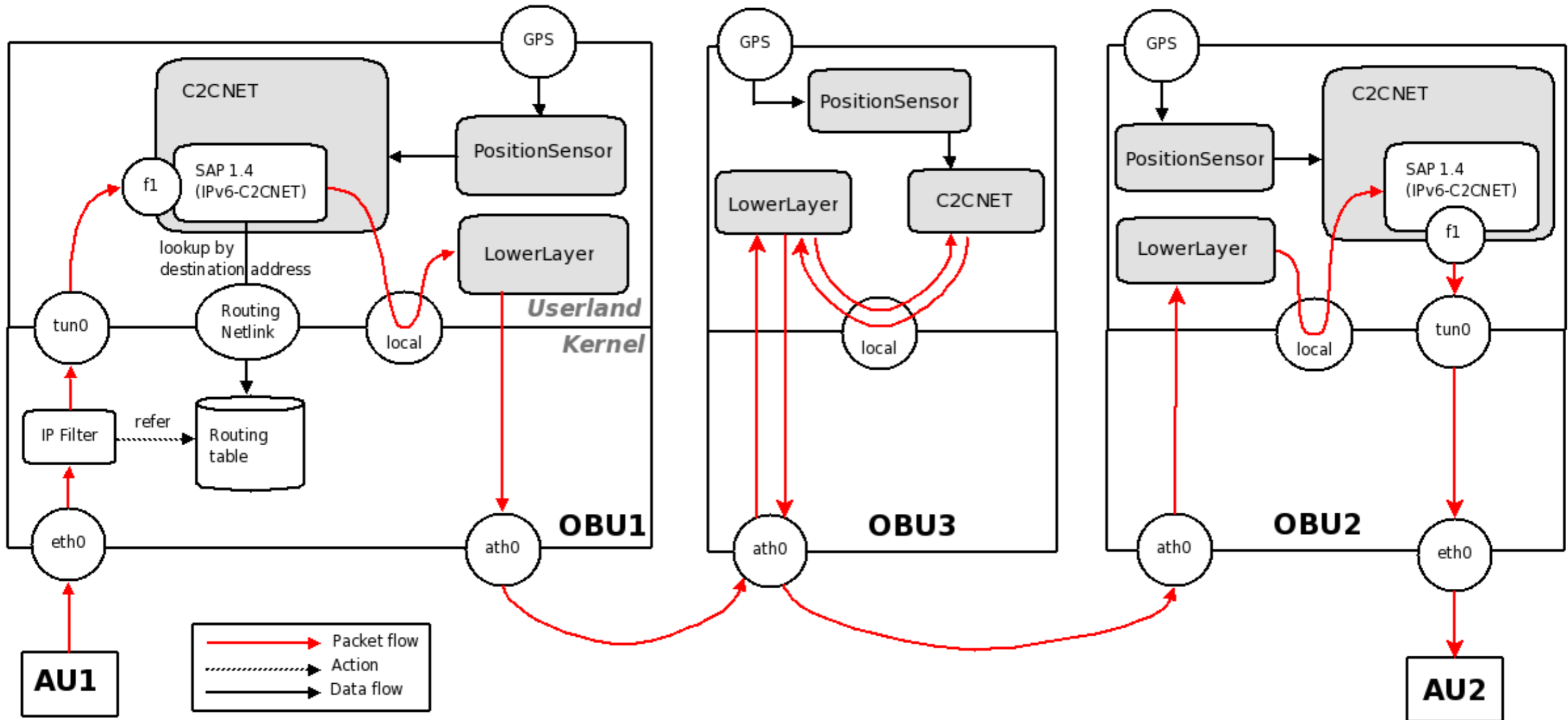
IPv6 over C2CNET



IPv6 over C2CNET



Linux virtual TUN interface



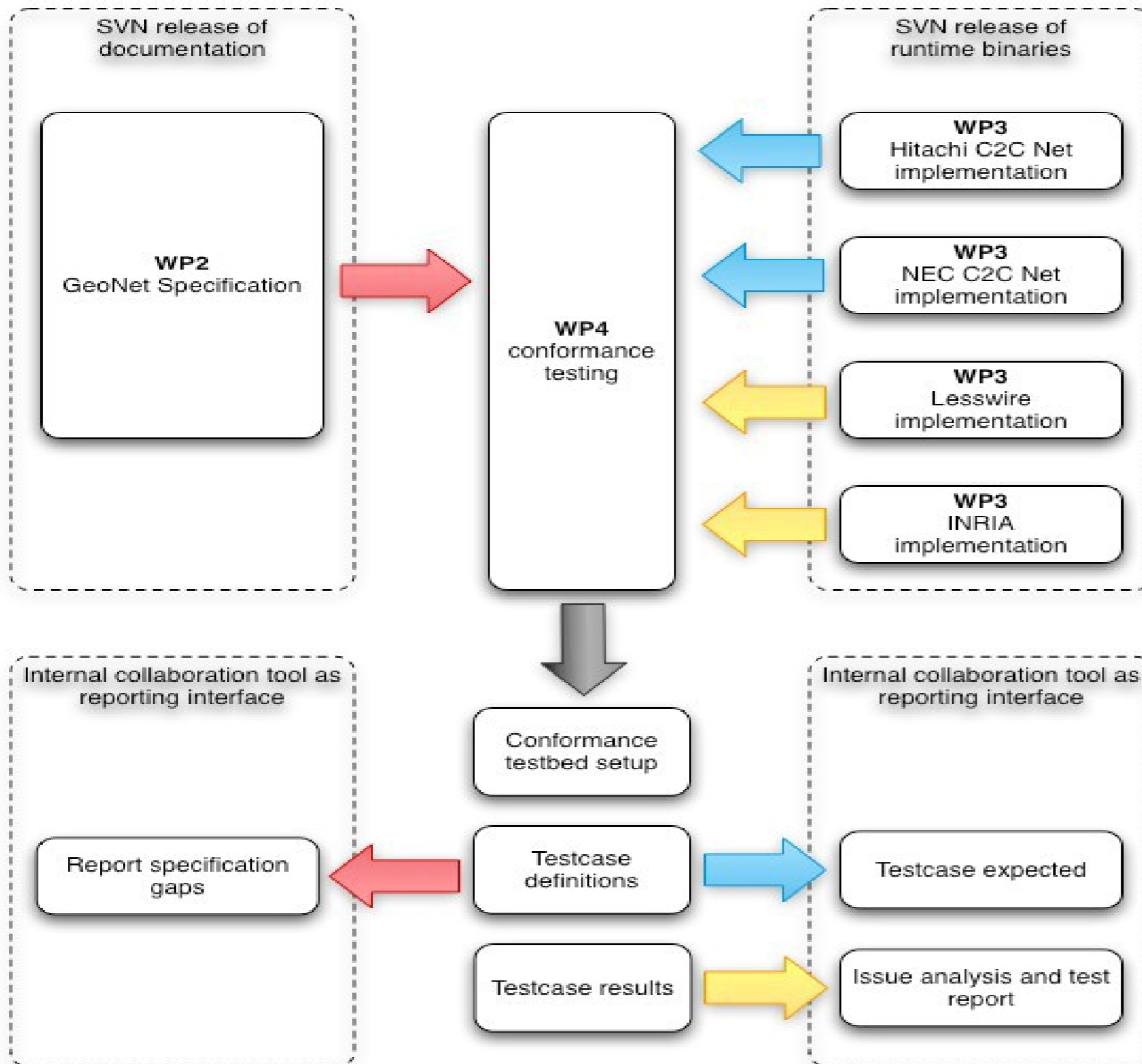
Lower layer module



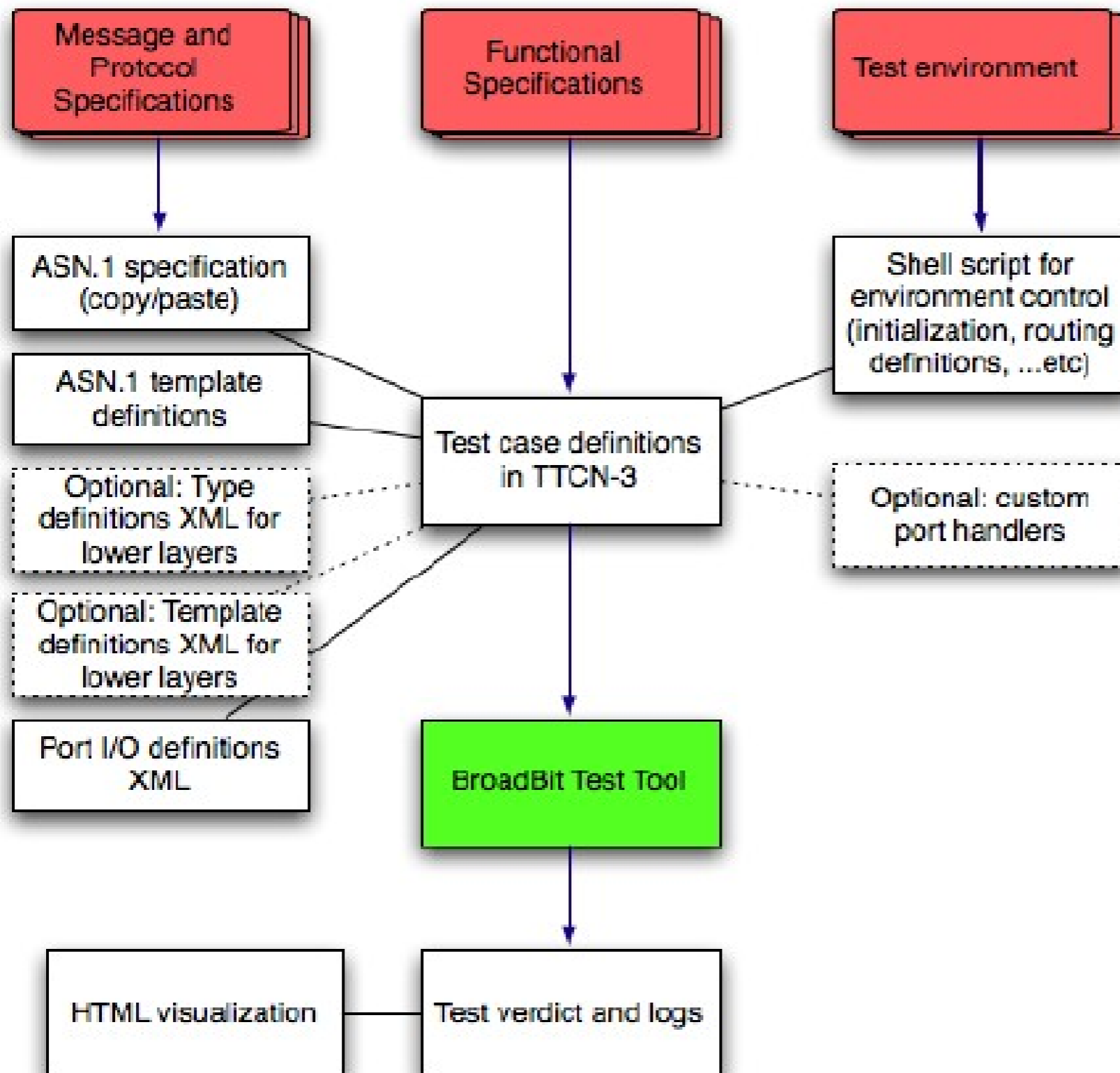
Testing



Overview



Test tool architecture



Thank you!