ATM UNI Signaling Support for IP over ATM

Work by:

Maryann Perez (perez@cmf.nrl.navy.mil)

Dan Grossman (dan@merlin.dev.cdx.mot.com)

Fong-Ching Liaw (liaw@fore.com)

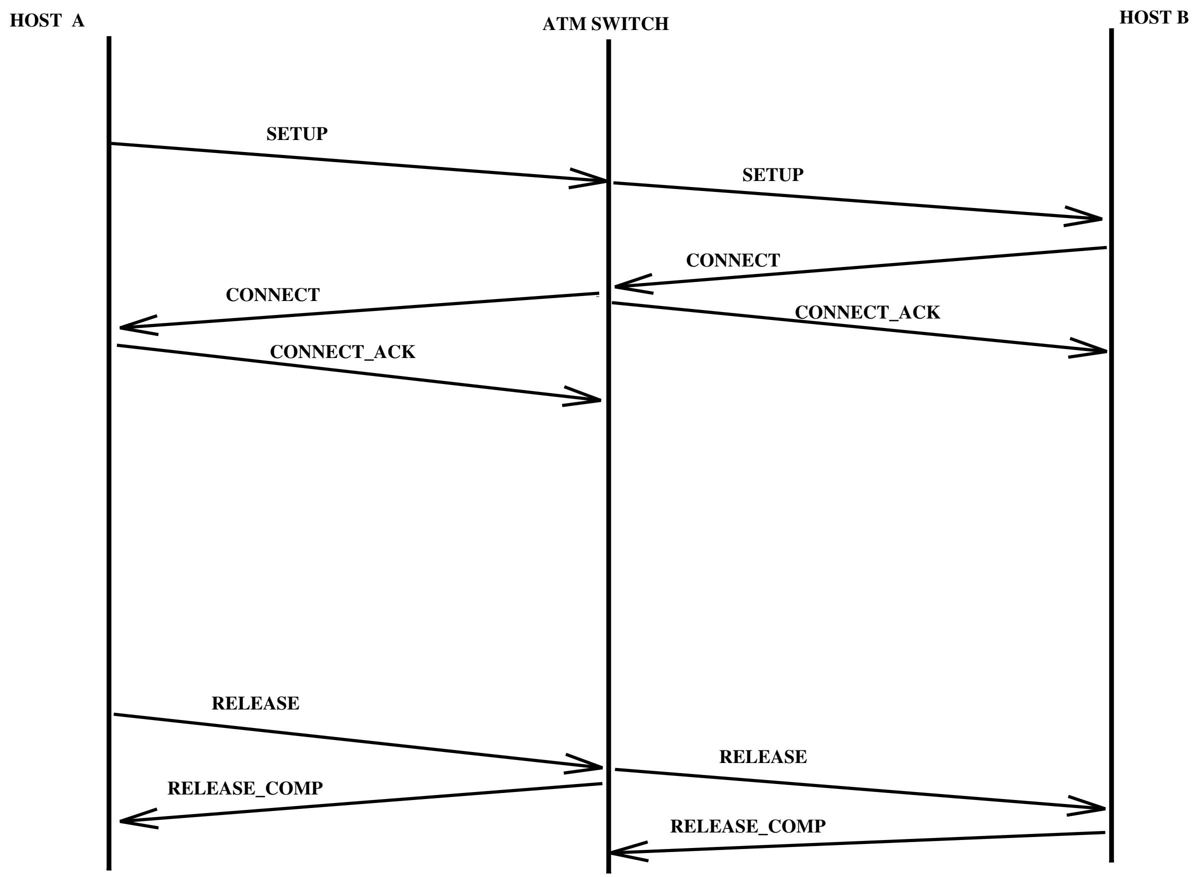
Allison Mankin (mankin@cmf.nrl.navy.mil)

Eric Hoffman (hoffman@cmf.nrl.navy.mil)

Motivation

- Implementors guide on the use of UNI signaling to support Classical IP over ATM
- Promote interoperability
- Start with RFC 1577 (RFC 1483 LLC/SNAP)
  - also support RFC 1483 null encapsulation
- Evolve ...

Signaling Procedures



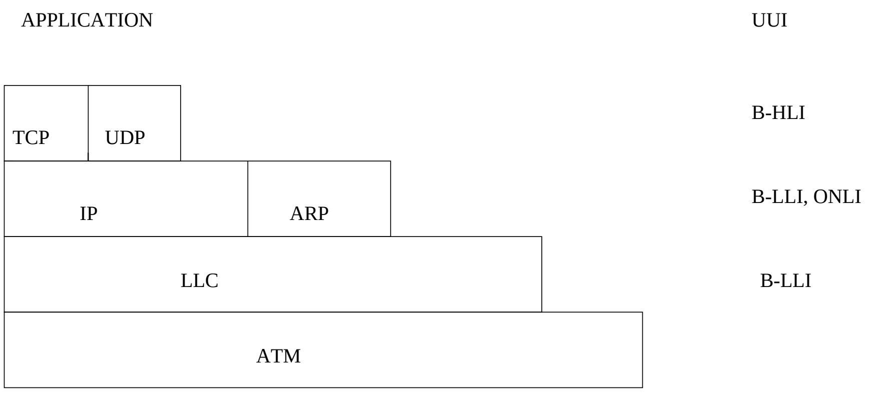
Overview of Draft

- Information elements
  - Significance to ATM endpoints
    - Encapsulation
    - Protocol Layering
  - Significance to ATM network and endpoints
- Protocol procedures
  - VCs handling procedures
- Call failure procedures

Information Elements

- Mandatory
  - AAL Parameters*
  - ATM Traffic Descriptor (ATM User Cell Rate)
  - Broadband Bearer Capability
  - Broadband Low Layer Information*
  - QoS Parameter
  - Called Party Number
  - Calling Party Number
- Optional
  - Calling Party Subaddress
  - Called Party Subaddress
  - Transit Network Selection

VC Management



What next?

- "Informational RFC"
  - Scope solely RFC 1577? Multiprotocol?
- More challenging signaling issues ahead as ATM Forum's specification progress