Short-cut Routing with OSPF

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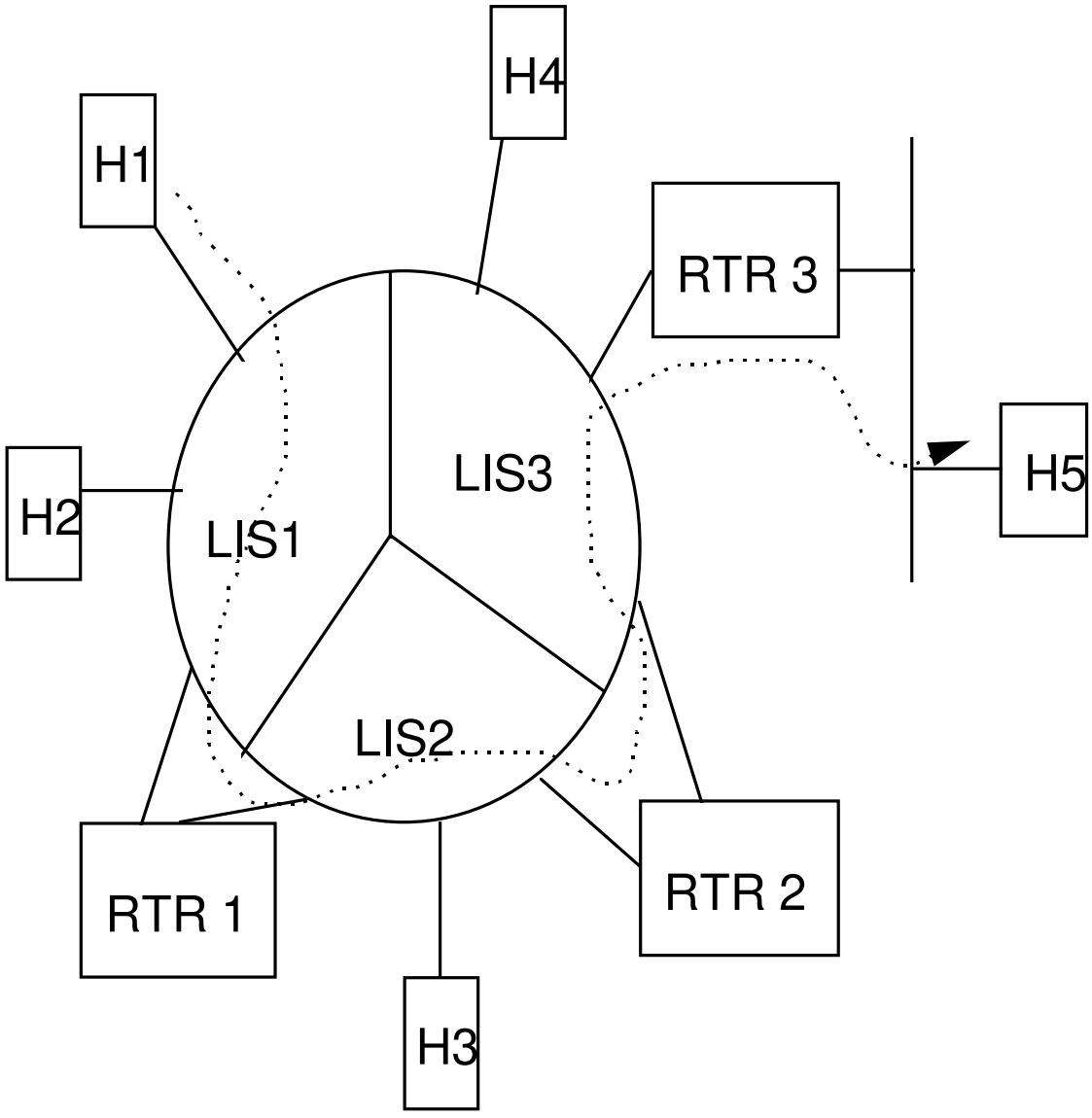
Classical IP over ATM



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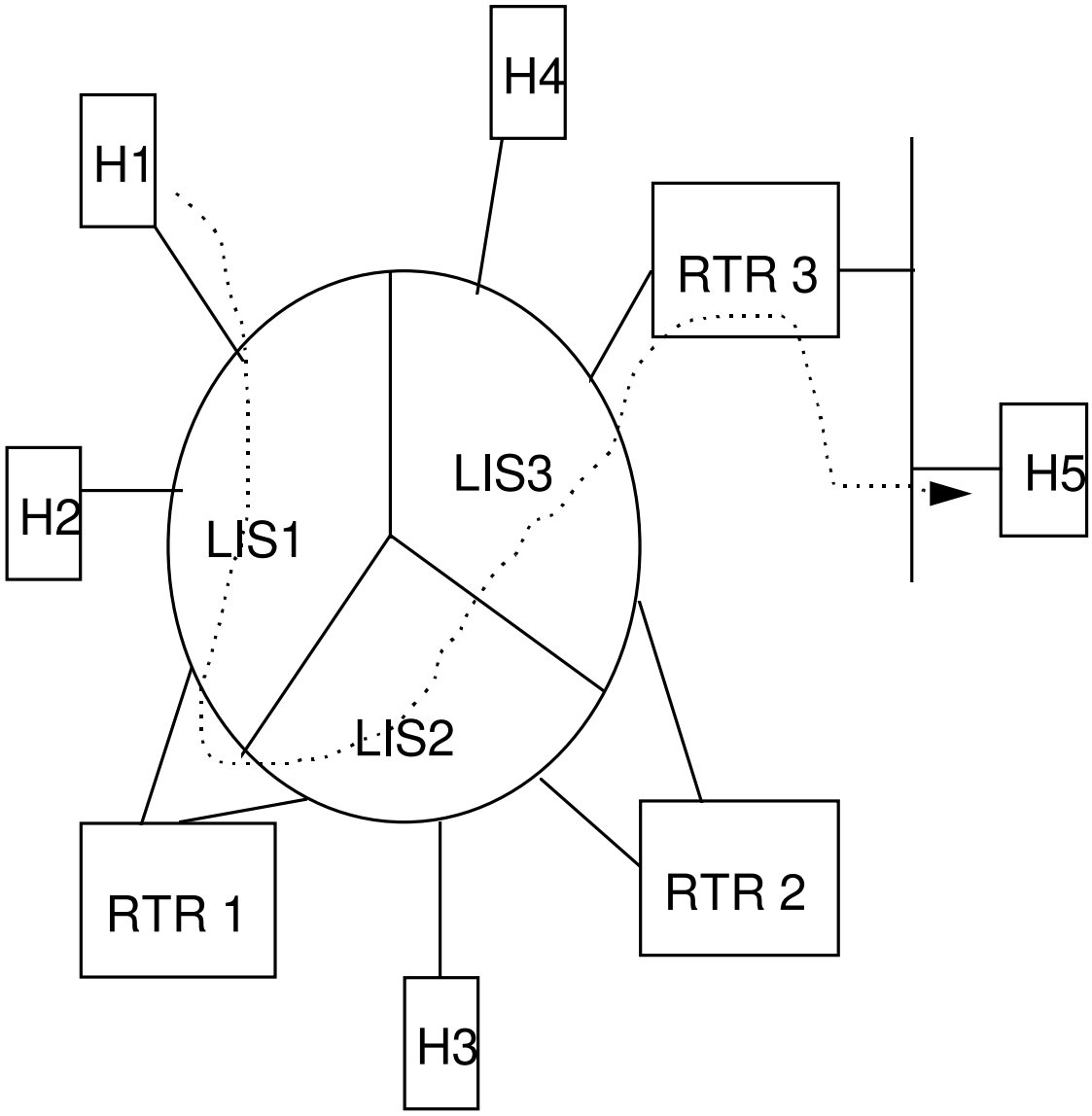
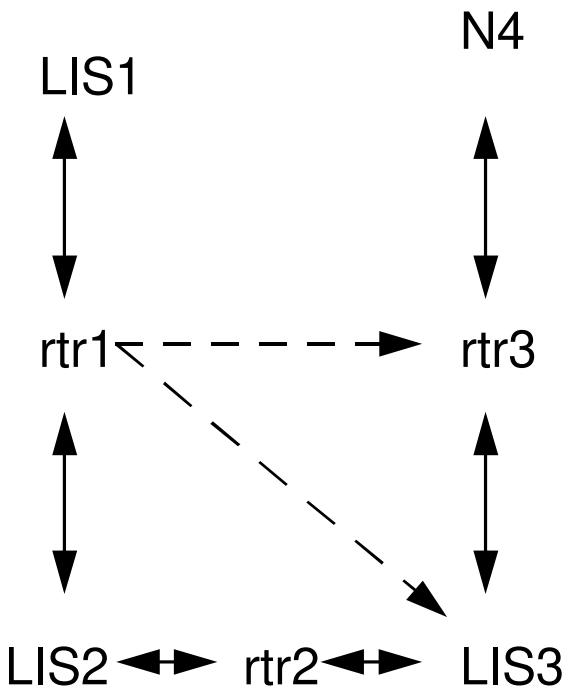


Goals and Non-goals

- Goals
  - » Minimize protocol impact
  - » Interoperate with existing routers
  - » Extension of classical model (support classical hosts)
  - » Limit configuration
  - » Permit direct routes to non-configured LISs
  - » Support Rekhter IP/ATM Architecture (see draft-rekhter-ip-atm-architecture-00.txt)
- Non-goals
  - » Host-to-host cut through

OSPF Protocol Update

- New opaque LSAs for ATM attached routers
  - » ATM Network LSA
    - – Originated by the designated router
    - – Contains ATM address of ARP Server for LIS
  - » ATM Router LSA
    - – Originated by ATM attached router
    - – Contains ATM address of ATM interfaces

Example

- Advertise normal LSAs
- Advertise ATM LSAs where appropraite
- Route calculation yields short-cut route