

SAS Action Items
Peter Jones
Luminous Networks

25 October 2004

ATTs and SAS Interworking

- SAS should use ATTs to advertise the presence of the SAS layer.
- This ATTs allows marking of stations in the topology database as SAS capable.
- This can be used to determine if a given frame should be learned:
 - Pros
 - Don't need special multicast address
 - Cons:
 - Topology lookup is harder than fixed address compare

SAS, Ring Local and Secondary Addresses

- Topology notifies SAS when the contents of the topology database change.
- Ring local station addresses are added to and removed from the SAS table by SAS.
 - Use a specific entry type “localStation”.
 - This entry is not automatically aged.
- Secondary MACs are treated as ring local station addresses.

Service Indication Primitives

- Treat this like the receive filter.
 - Don't specify how the mapping control is set (same as we do for myRxFilter).
- Add a datapath variable myAddrMapping
 - This controls MA_DATA.indication address mapping.
 - Add a new state/new rows to “Table 7.24 ReceiveFilter state table”
 - Propose a new “MAP” state before “COPY”.

Service Indication Primitives (cont.)

- myAddrMapping = RXMAP_BASIC
 - Normal frame processing
 - As currently described by the standard.
 - Pass frame sa/da to client indication as destination_address/source_address.
 - Extended frame processing
 - An addition to the standard
 - Maps extended format frame addresses back to the da/sa parameters provided to the MA_DATA.request.
 - Don't pass da/sa from frame to client.
 - Pass daExtended/saExtended to client as destination_address/source_address.

Service Indication Primitives (cont.)

- myAddrMapping = RXMAP_ADVANCED
 - What is in the standard today.
 - Normal frame processing
 - Pass frame sa/da to client indication as destination_address/source_address.
 - Extended frame processing
 - Pass da/sa to the client as destination_address/source_address.
 - Pass daExtended/saExtended to the client as destination_address_extended/source_address_extended.

Spare Slide

- This slide intentionally left spare.