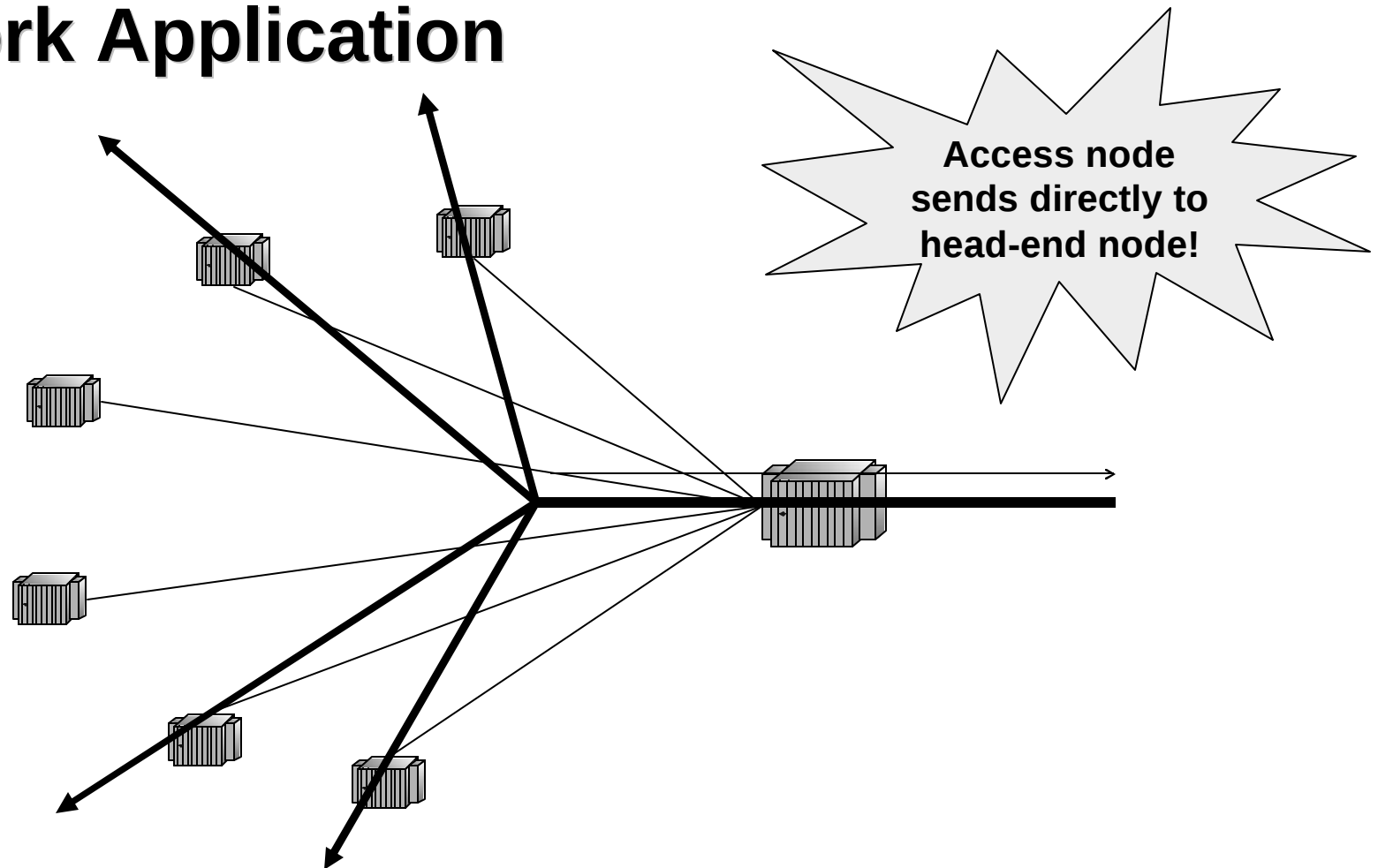


Objective

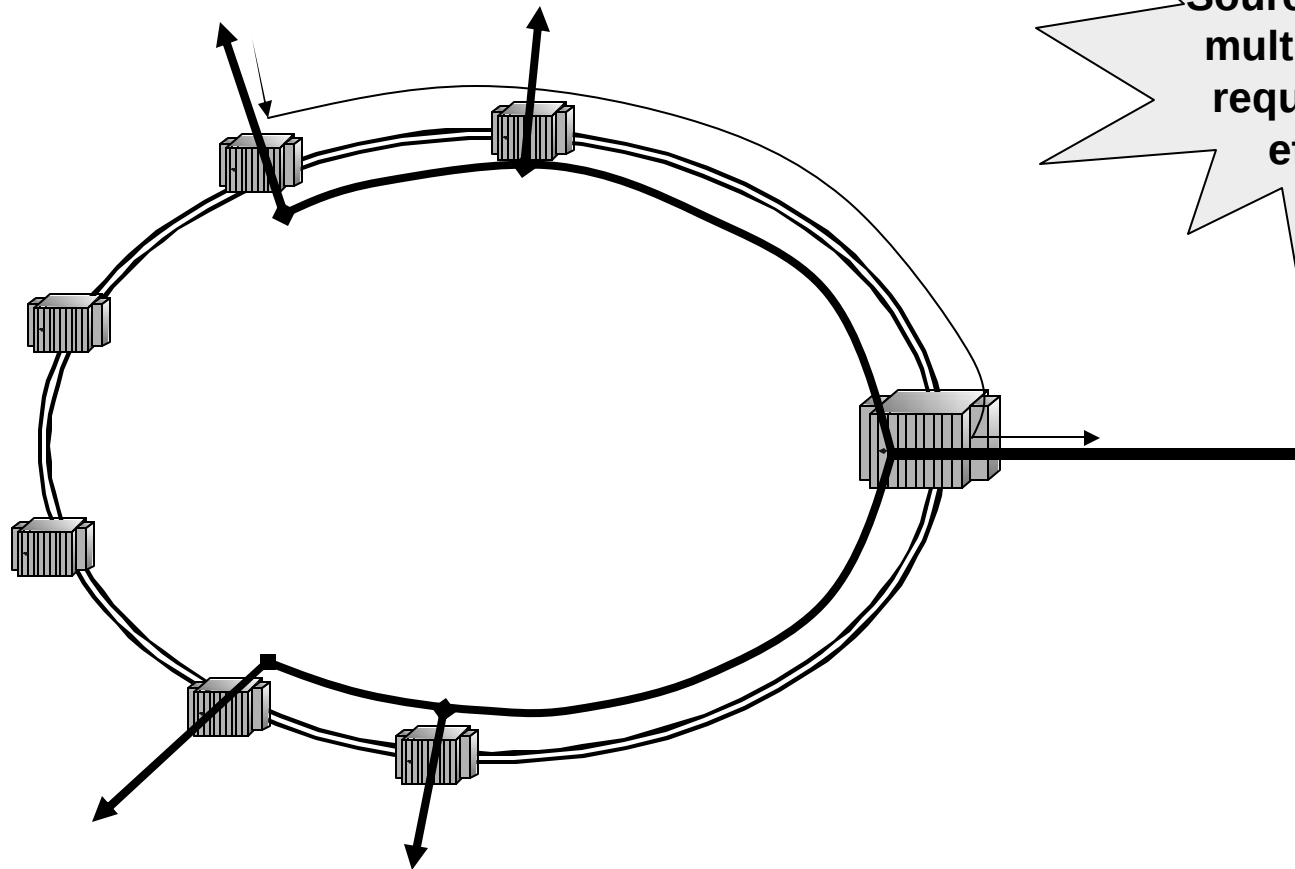
- Maintain P802.17b D1.1 mutlicast scoping function
- Not preclude the MLT cleave point selection algorithm constraint
- Make MarchH, MikeT, PeterJ, RobertC, and everyone happy (or at least equally dissatisfied).

Network Application



- Head-end node multicast traffic to designated access nodes.
- Access node corresponds with head-end node

Network Application using RPR



**Source learning of
multicast source
required for BW
efficiency!**

- Head-end node multicast traffic to designated access nodes.
- Access node corresponds with head-end node

P802.17b D1.1 Changes

- Clause 7.2.1 Common state machine definitions

SAS_GROUP_ADDRESS

A constant value specified by 01-80-C2-xx-xx-xx (reference IEEE 802.1D-2004, 7.12.3) used by SAS for unknown unicast

SAS_MGROUP_ADDRESS

A constant value specified by 01-80-C2-yy-yy-yy (reference IEEE 802.1D-2004, 7.12.3) used by SAS for multicast scoping

P802.17b D1.1 Changes

- Make change to SasTransmit state table found in section 14.6.4.1.4

Current state		R o w	Next state	
State	Condition		Action	State
EXTEND	Multicast(destination_address)	6	SasEncodeAddr(SAS_MGROUP_ADDRESS)	TRANSMIT

NOTE: SAS multicast scoping as per D1.1 will use the SAS_MGROUP_ADDRESS in the destination address of the extended RPR frame. Otherwise, the basic frame structure is used and SAS is not requested.

P802.17b D1.1 Changes

- Make change to section 7.7.3.3

SdbMcastLookup(frame)

Looks up the frame.*daExtended*, (and the VID if optionSasVlanAware is TRUE) in the SDB static group address table. If an entry is found, it increments the *sasTxMcastScopedFrames* counter and returns the configured hop count. Otherwise, it returns NULL.

McastLookup(frame)

Looks up the frame.*da*, (and the VID if optionSasVlanAware is TRUE) in the SDB static group address table. If an entry is found, it increments the *sasTxMcastScopedFrames* counter and returns the configured hop count. Otherwise, it returns NULL.

P802.17b D1.1 Changes

- Make change to Table 7.4 - Initial ttl field values table

Ft field value	Additional relevant values	R o w	Constraints on initial ttl field value
FT_DATA	(Frame.da==SAS_MGROUP_ADDRESS) && optionSasMcastScope && !Unicast(frame.da) && (mcastScope = SdbMcastLookup(frame) != NULL)	15	ttl == mcastScope
	optionSasMcastScope && !Unicast(frame.da) && (mcastScope = McastLookup(frame) != NULL)	16	ttl == mcastScope

P802.17b D1.1 Changes

- Make change to SasReceive state table found in section 14.6.5.1.4

Current state		R o w	Next state	
State	Condition		Action	State
LEARN	(frame.ef == 1) && (((frame.da == SAS_GROUP_ADDRESS) (frame.da == SAS_MGROUP_ADDRESS)) (Unicast(frame.da) && flooding_form == FLOOD_NONE))	4	SdbLearn(frame)	MAP

NOTE: SAS multicast scoping as per D1.1 will use the SAS_MGROUP_ADDRESS in the destination address of the extended RPR frame. Otherwise, the basic frame structure is used and SAS is not requested.