

Time-to-Market Views for RPR

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Agenda

- RPR user perspectives
- RPR vendor perspectives
- Recommendations to avoid “hibernation” of 802.17

User Views

- Packet rings with 50 mS protection performance.
- Offer Differentiated Services

Challenges to 802.17

- Not much time and lots to do !!
 - Timeline - proposal cutoff by 11/2001
- Time to market for 10 Gbps RPR

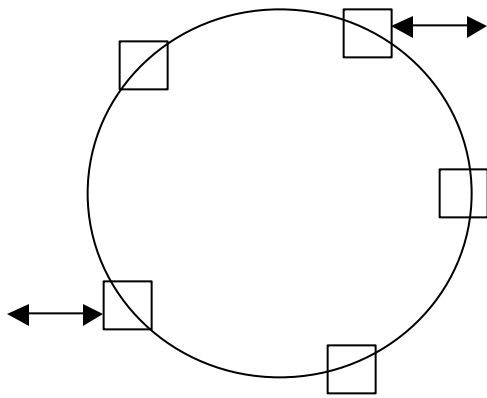
Meeting Timeline

- Must deliver to schedule or loose credibility !!
- Leverage existing work where possible
- Stay focused on defining what is totally different
 - Transit Path behavior
 - Protection switching
- Get off the QoS debate – it is a black hole !!
 - Put hooks for both Class & Flow based BW management schemes

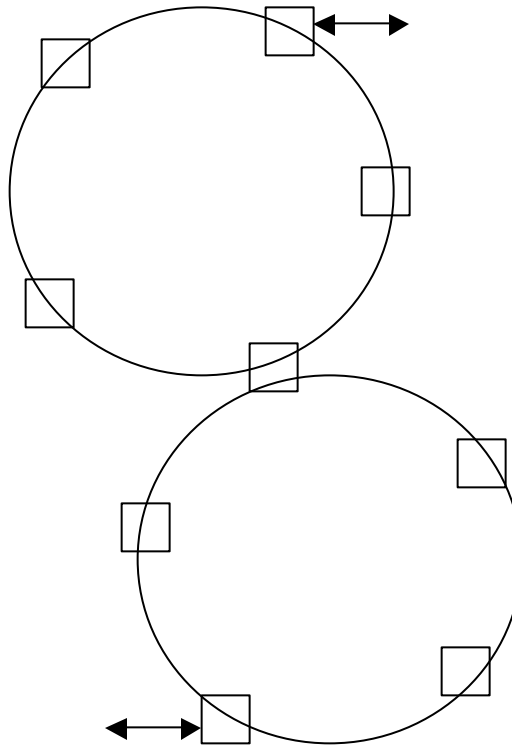
Keep RPR Competitive

- A timely solution
 - Think of implementation
- Lower risk for vendors and suppliers to provide RPR solutions
- Make 802.17 flexible for Router and Transport solution (layer 2) vendors
- End-to-End Ethernet service is important and RPR must provide a scalable solution

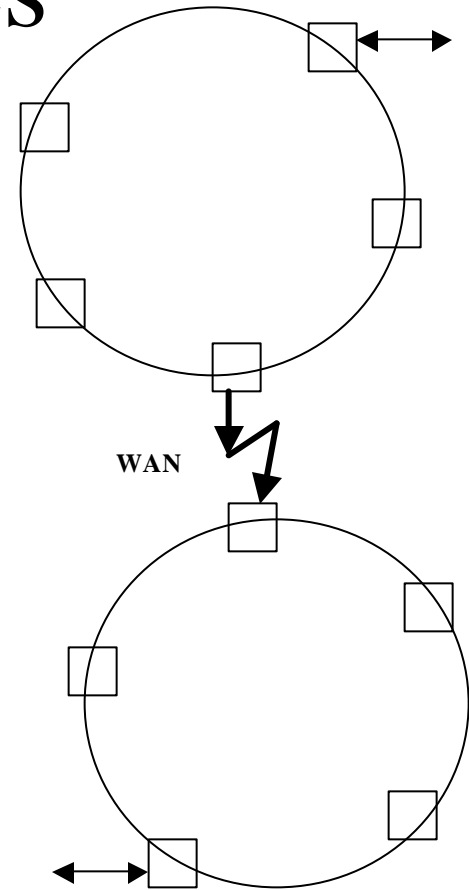
Ethernet Services



Stand-alone Ring



Subtending Rings



Rings connected
by WAN

Ethernet over RPR Options

- #1: Encapsulate over RPR and use MPLS or IP on links between rings
 - Require a service (customer) separation ID field
- #2: Use MPLS over RPR and extend it on links between rings
 - Requires a 32 bit MPLS label between Ethernet/RPR
- #3: IP tunnel over RPR and extend it over links between rings
 - Requires tunnel header between Ethernet/RPR
- #4: Transparent Bridging between Ethernet and RPR
 - Requires service (customer) separation ID

Network Topologies

- Rings connected by Rings
- Rings connected by meshes

Generalization of System

