# Common Endpoint Locator Pools (CELP)

- draft-crocker-celp
  - Dave Crocker
  - Avri Doria
- Multiple multiaddressing schemes
  - Different approaches have different benefits
- Proposal:
  - Share locator pools across independent associations
  - Reduce multiaddressing control transaction costs
  - Improve availability of locator performance information

# **Synergy Across Associations**

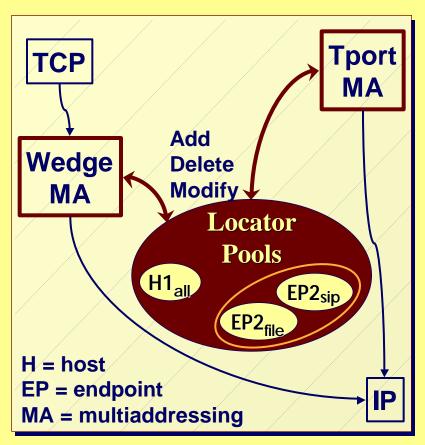
## Transport-based schemes

- Multiplex control exchange in data stream, so control data does not increase packet overhead
- Can naturally obtain path quality information

## Wedge-based schemes

- Multiaddressing for legacy transports
- Naturally independent of individual transport associations
- Can operate asynchronously of associations, deferring control exchanges, often needing no exchange
- Can maintain pools with different referential granularity

## Framework



- Variable granularity
  - {local, remote}
  - {local, remote, flow}
  - \* {local, remote, protocol, port}
  - \* {local, remote, type of service}

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- Status
  - Reachability
  - Performance

## **Issues**

#### Path selection

- Which paths are available or better?
- Suggestion: Defer generality; start with primary and fallback choices

#### Local/Remote combinatorials

Suggestion: Defer generality; start with just {remote} or {local, remote}

#### Security

- Different schemes have different degrees of security → concern about weakest participant affects entire service
- Maintaining synchrony among different modifiers of pool

#### Referential commonality

- Different schemes use different identifiers
- How to know that different locators refer to same endpoint?
- Suggestion: That's what domain names are for...

# **Next Steps**

### Resolve

- Differential security issues
- Near-term vs. long-term issues
- Determining common endpoint referencing
- Formulate CELP service model details
  - Data structures
  - Operations