Wide Area Service Location

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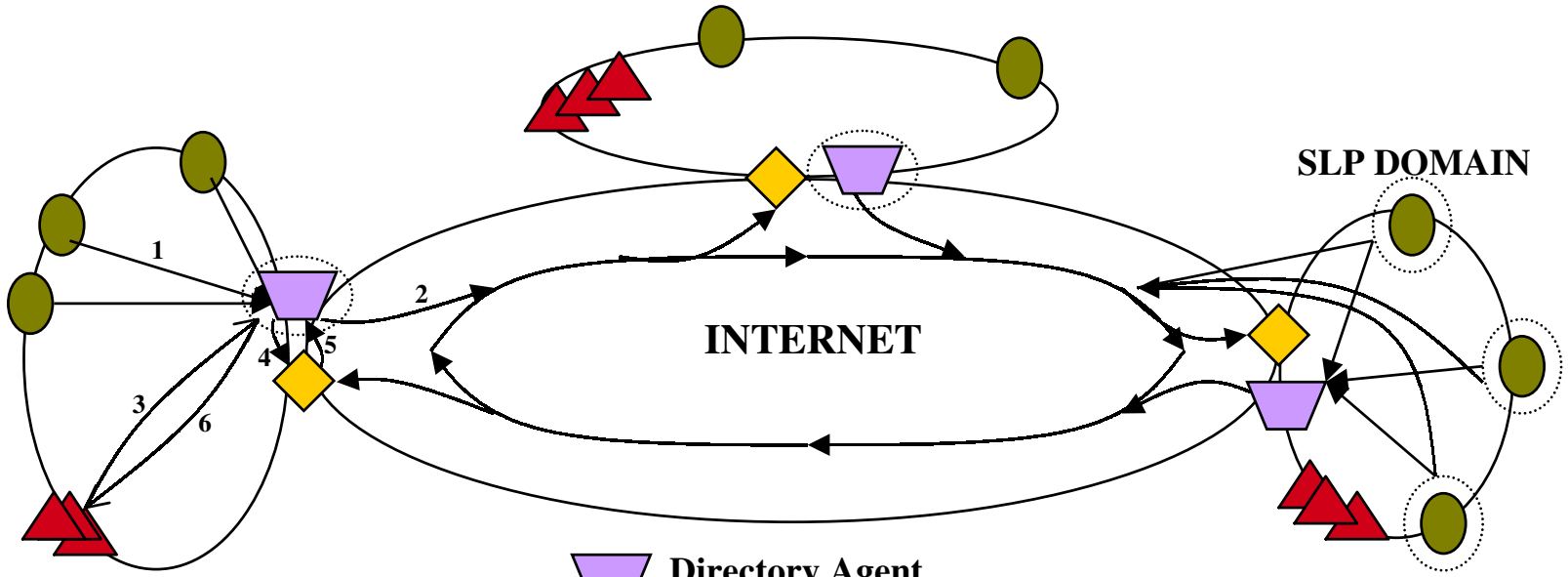
Architecture



1: Servers register to directory agent (uni or m-cast)
2: DA acts as AA, advertises onto wide area
3: Clients query DA for service
4: DA queries broker agent
5: BA respons
6: DA responds to client

Directory Agent
Client Agent
Brokering Agent
Server (Gateway) Agent
Advertising Agent

Features and Changes

- Removed
  - Notary concept
  - Telephony gateway cost issues
  - Distance/timestamp attribute (still important!)
- Features
  - Multicast advertisements within an SLP domain
  - Mix of unicast/multicast SA registrations - automatic detection of which to use and backwards compatible
- More details on advertisement and reception rules
- Specification of policy operation
- Separation of advertising agent and broker agent
- Use of protected scopes for administering advertisement policy
- Wire compatible with SLPv2

Open Issues

- Multicasting large advertisements w/o IP fragmentation
  - Attribute per packet?
- Determining service to address bindings
  - Use a bootstrap address to advertise bindings? Malloc effort?
- Multiple groups per service
- Operation w/o wide area multicast
- Obtaining certificates
- Allowing referrals
- Synchronization of BA's at startup