ATMARP Client Autoconfiguration

(draft-marcinik-auto-arp-00.txt)

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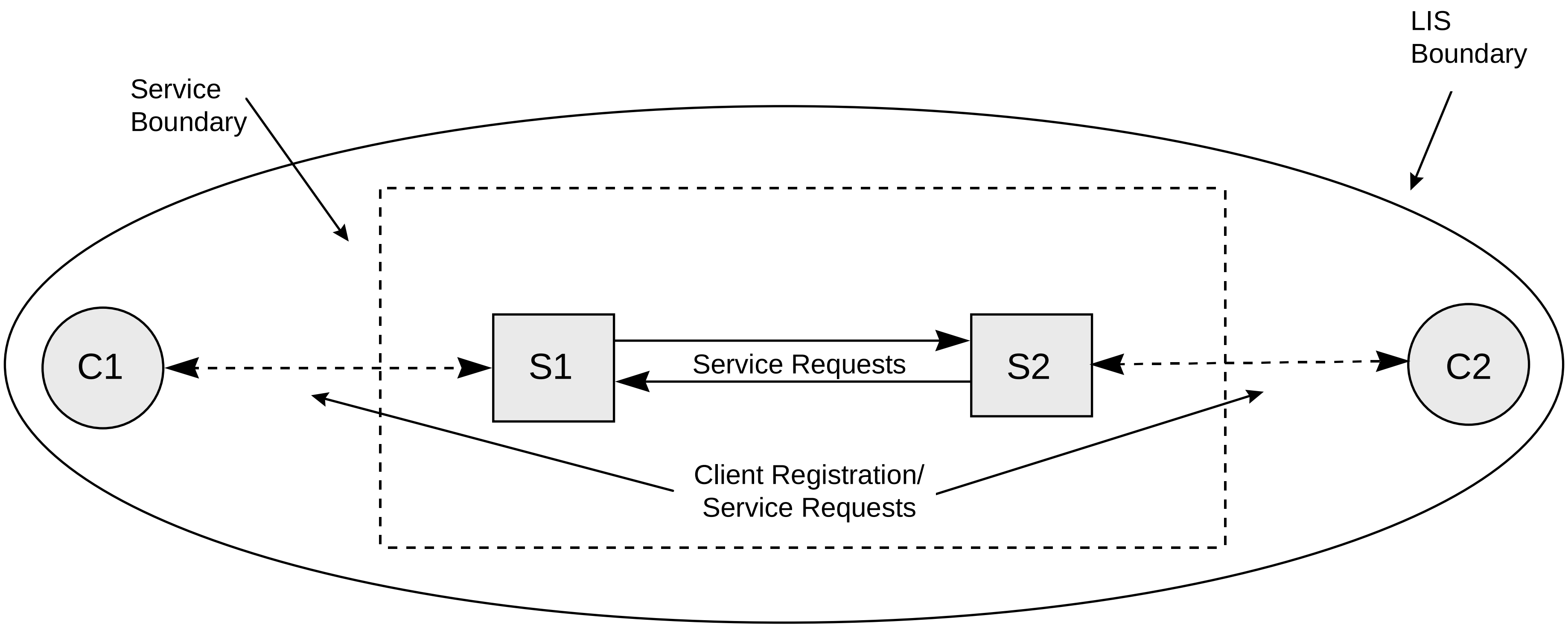
ATMARP Autconfiguration Goals

- Permit simple client behavior
- Provide service location in access-transparent manner
- Must support dynamic reconfiguration
  - Server change of attachment
  - LIS membership change
  - Client redistribution after server failure

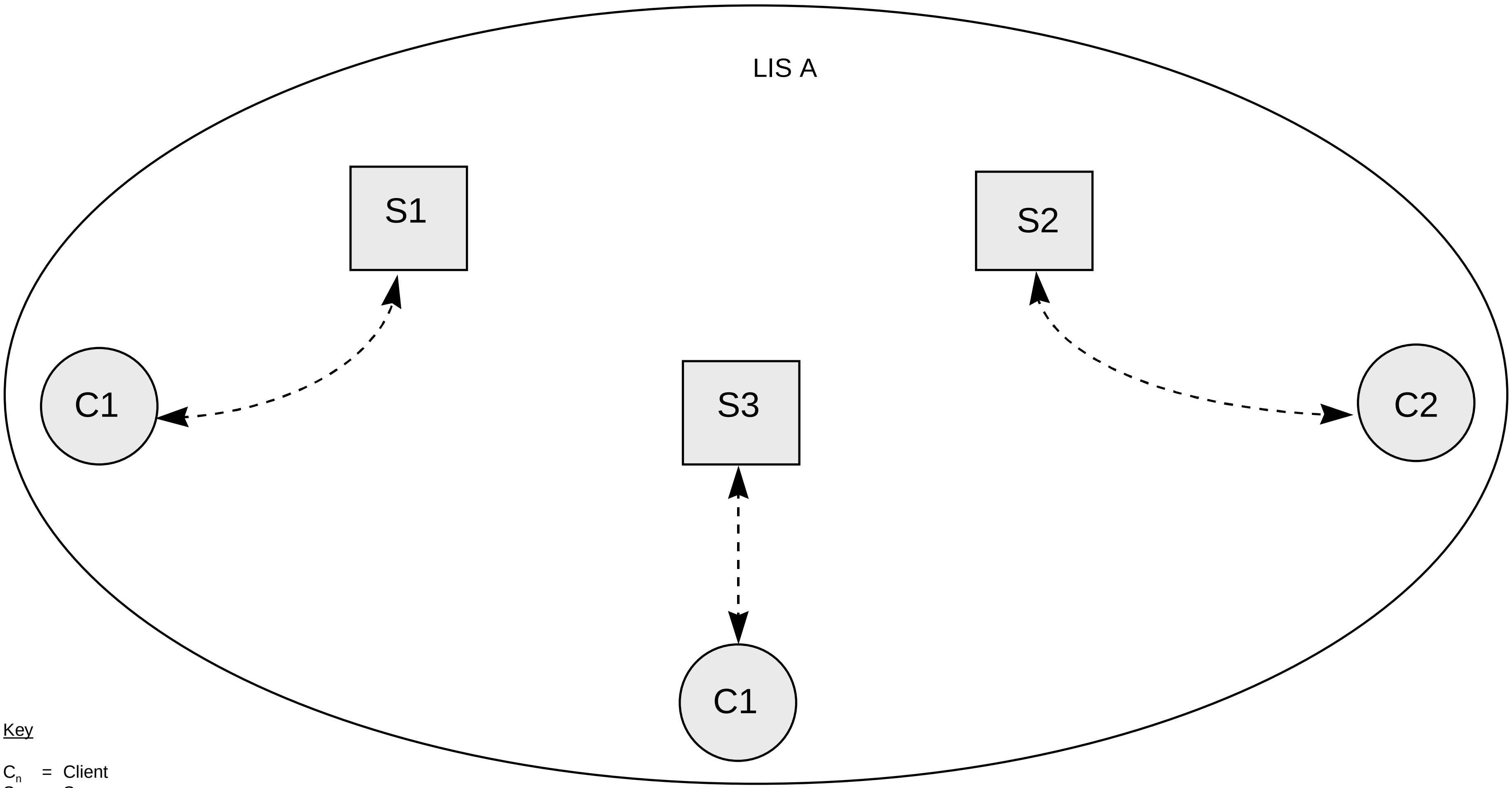
ATMARP Service Model



Key

C_n = Client
S_n = Server

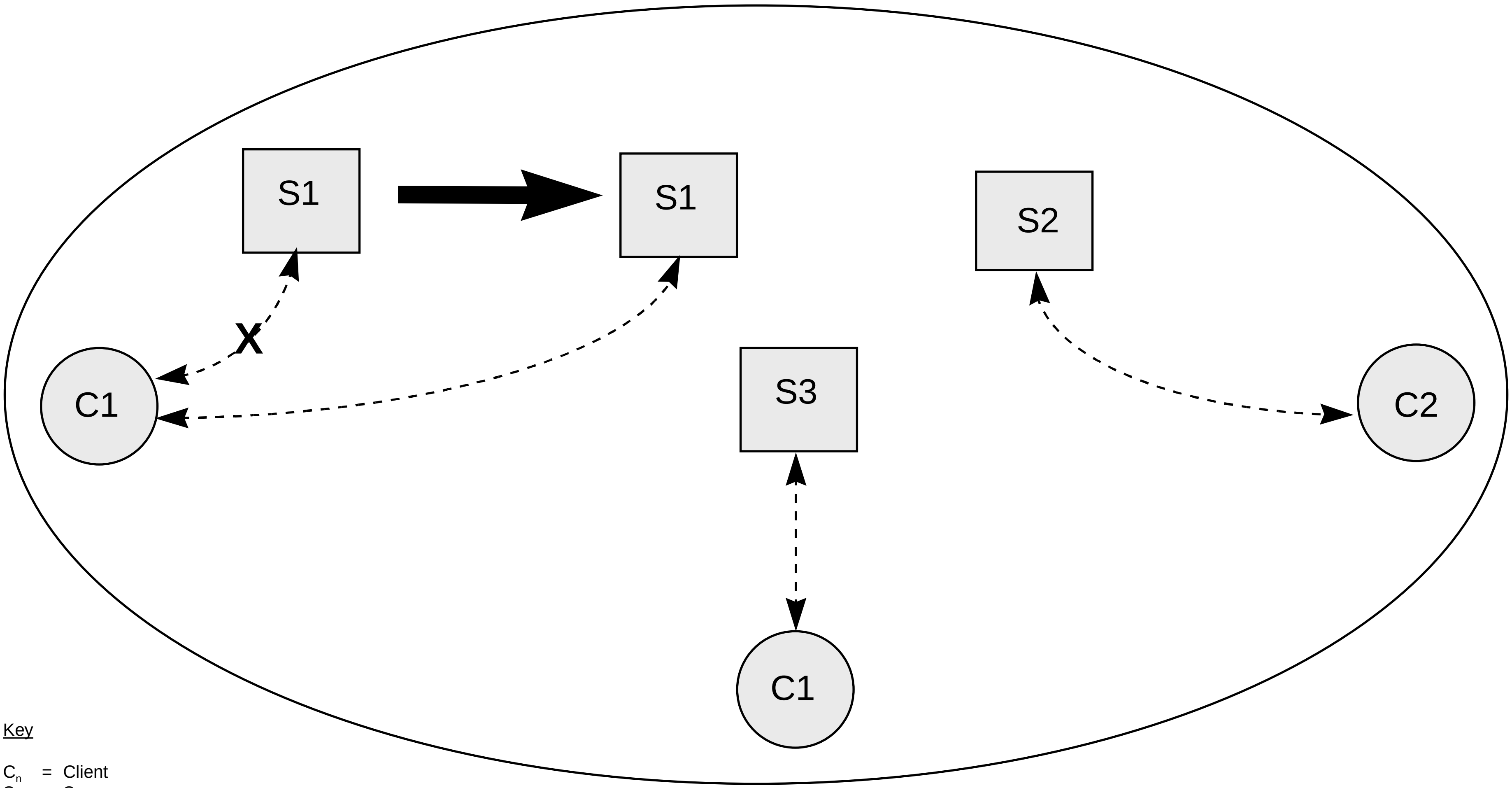
Service Location



Key

C_n = Client
S_n = Server

Server Change of Attachment



Key

C_n = Client
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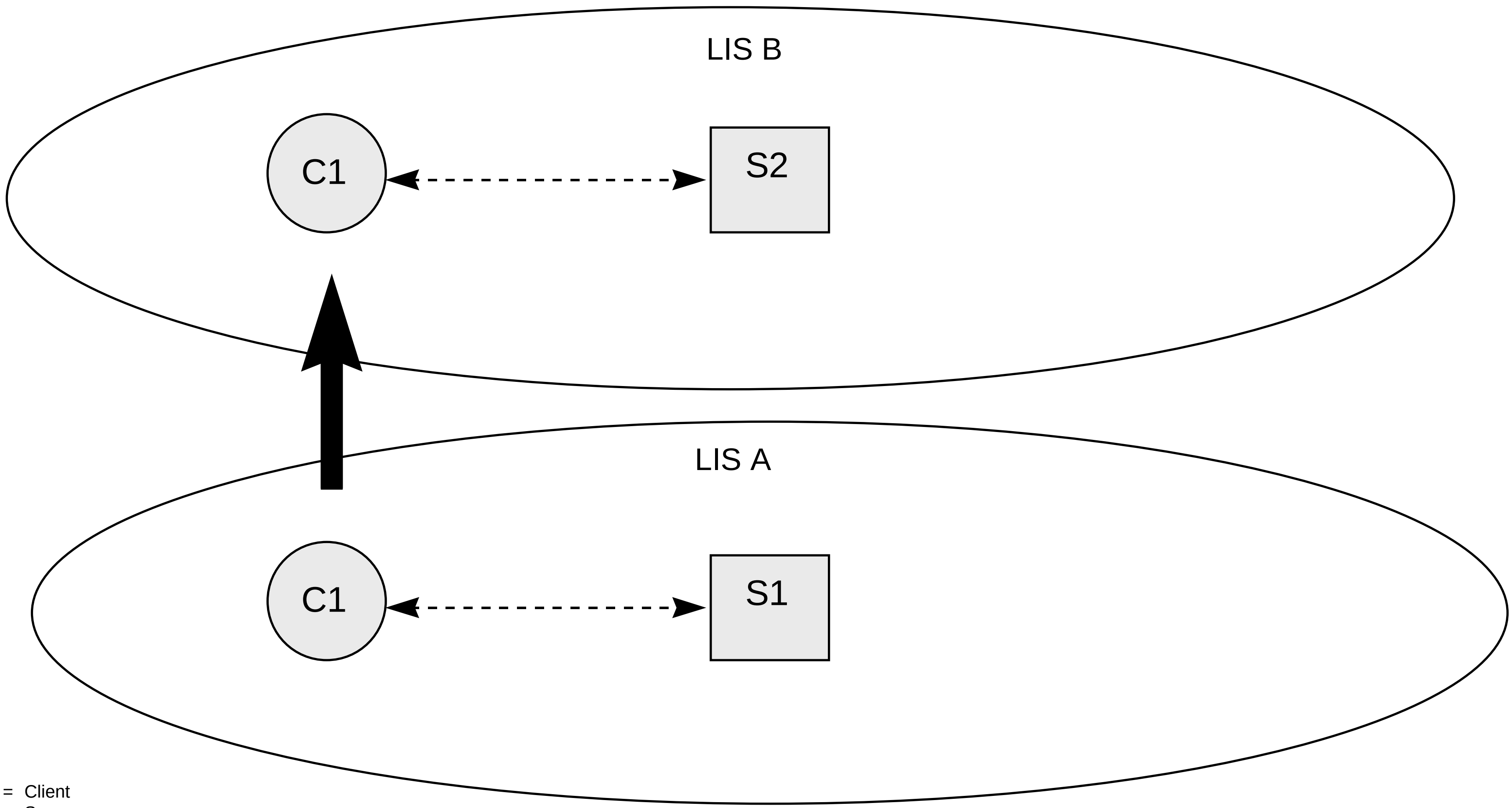
LIS Membership Change



Key

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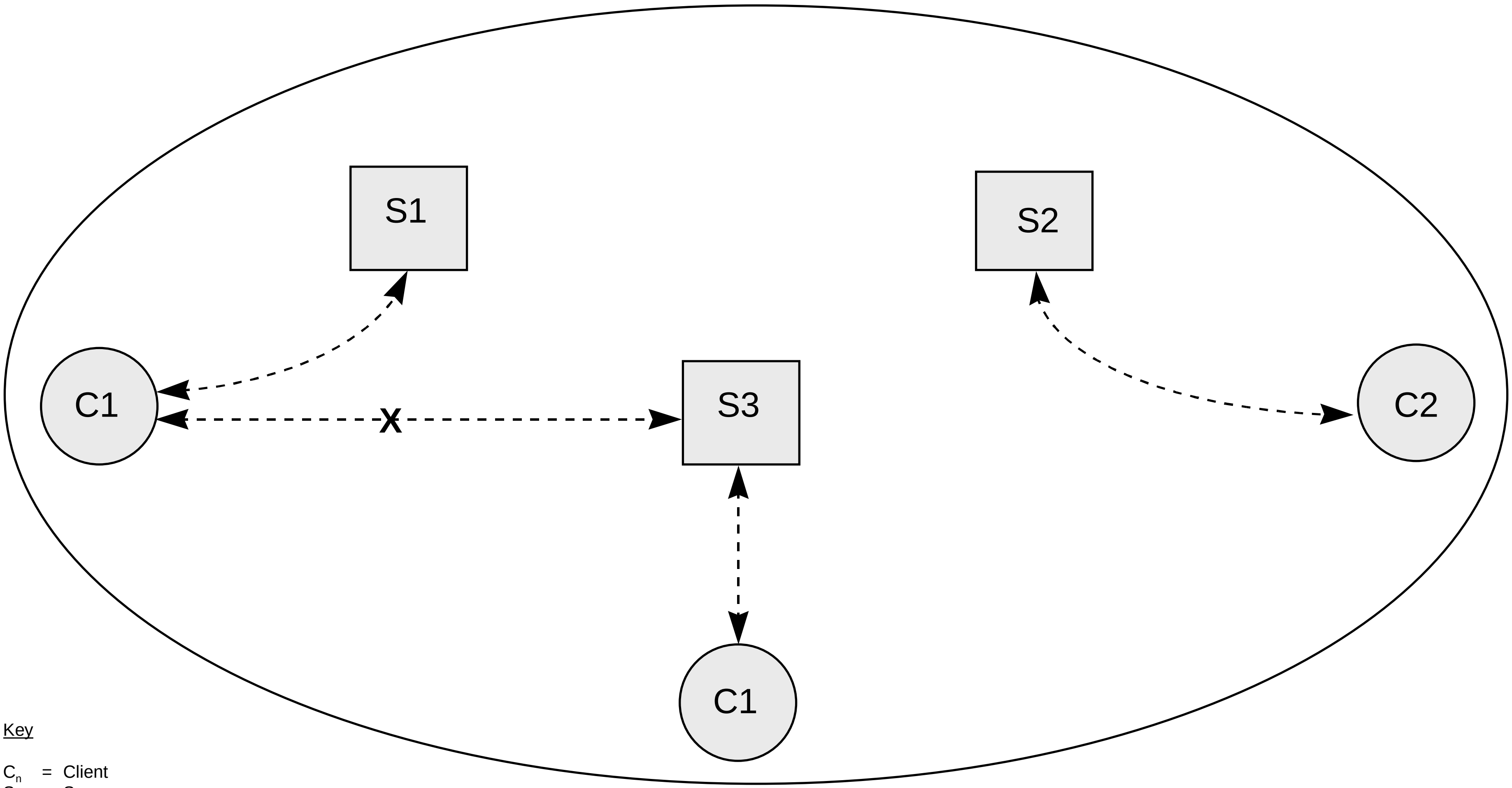
Client Redistribution



Key

C_n = Client
S_n = Server

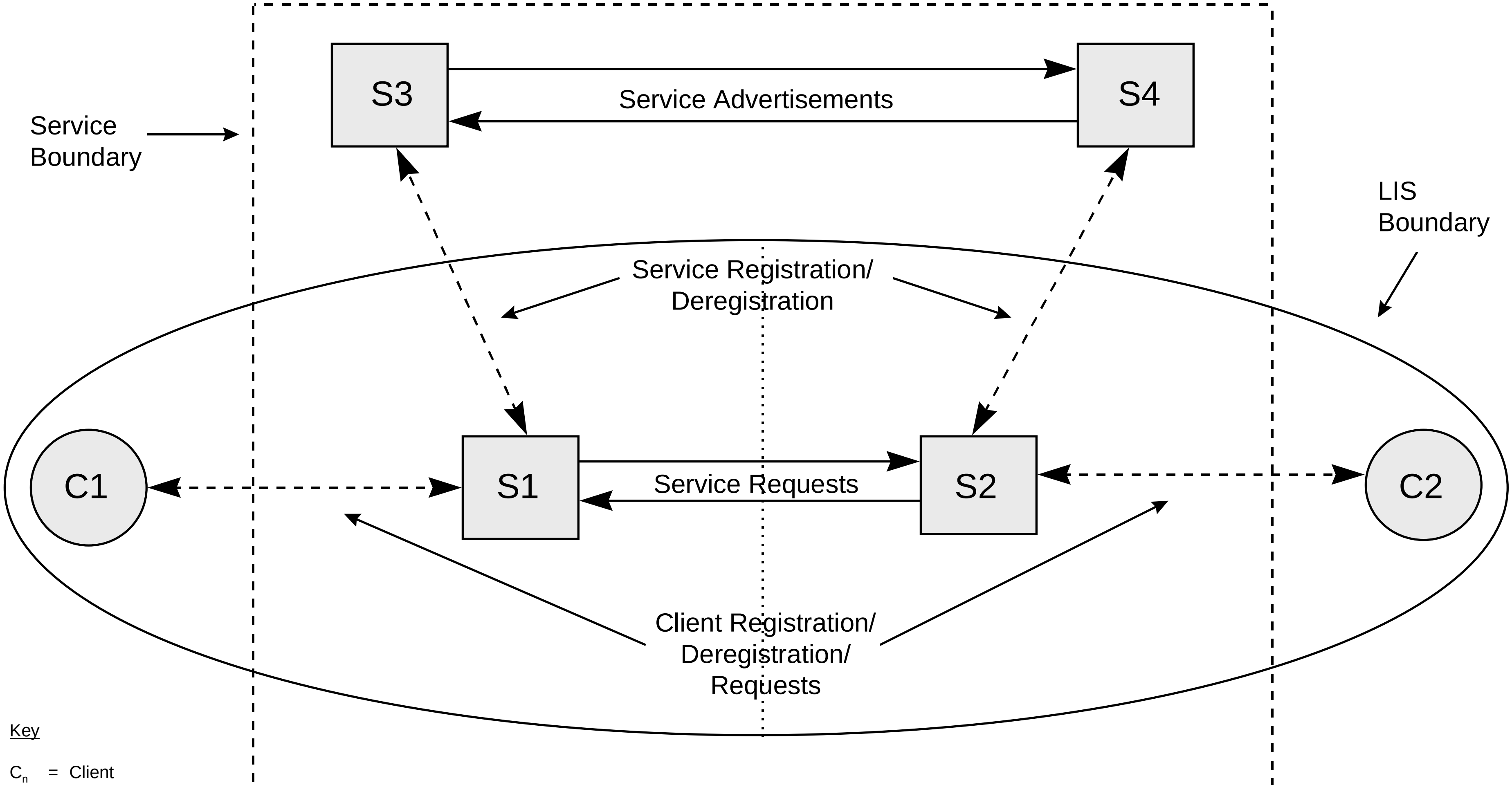
Summary - Advantages

- Simple, yet powerful mechanism
- Provides service location +
- Provides dynamic reconfiguration with
- No overhead introduced by the addition of yet another server
- Good first step to gain experience with Anycast
- Appropriate for **many** situations

Summary - Limitations

- Approach most useful for single or co-located services
- Need to manage dynamic relationship between LIS and P-NNI topologies
- Scalability limitations
- Anycast “distance” corresponds to P-NNI topology

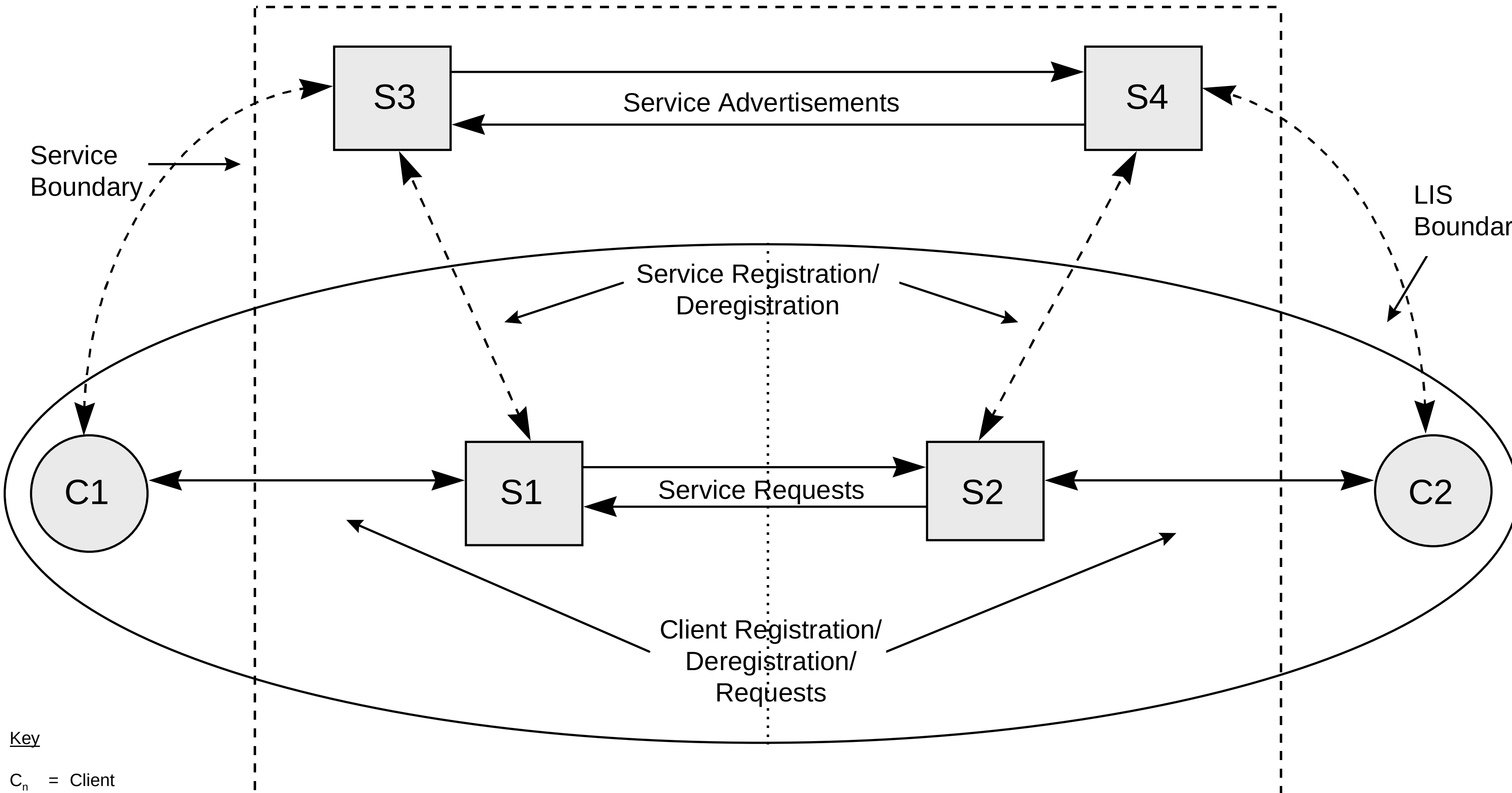
Extended Service Model
(Single Point of Access)



Key

C_n = Client
S_n = Server

Extended Service Model
(Multiple Points of Access)



Key

C_n = Client
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