

# Content Aware Overlay Networks

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Future Media Internet Architecture -Think Tank  
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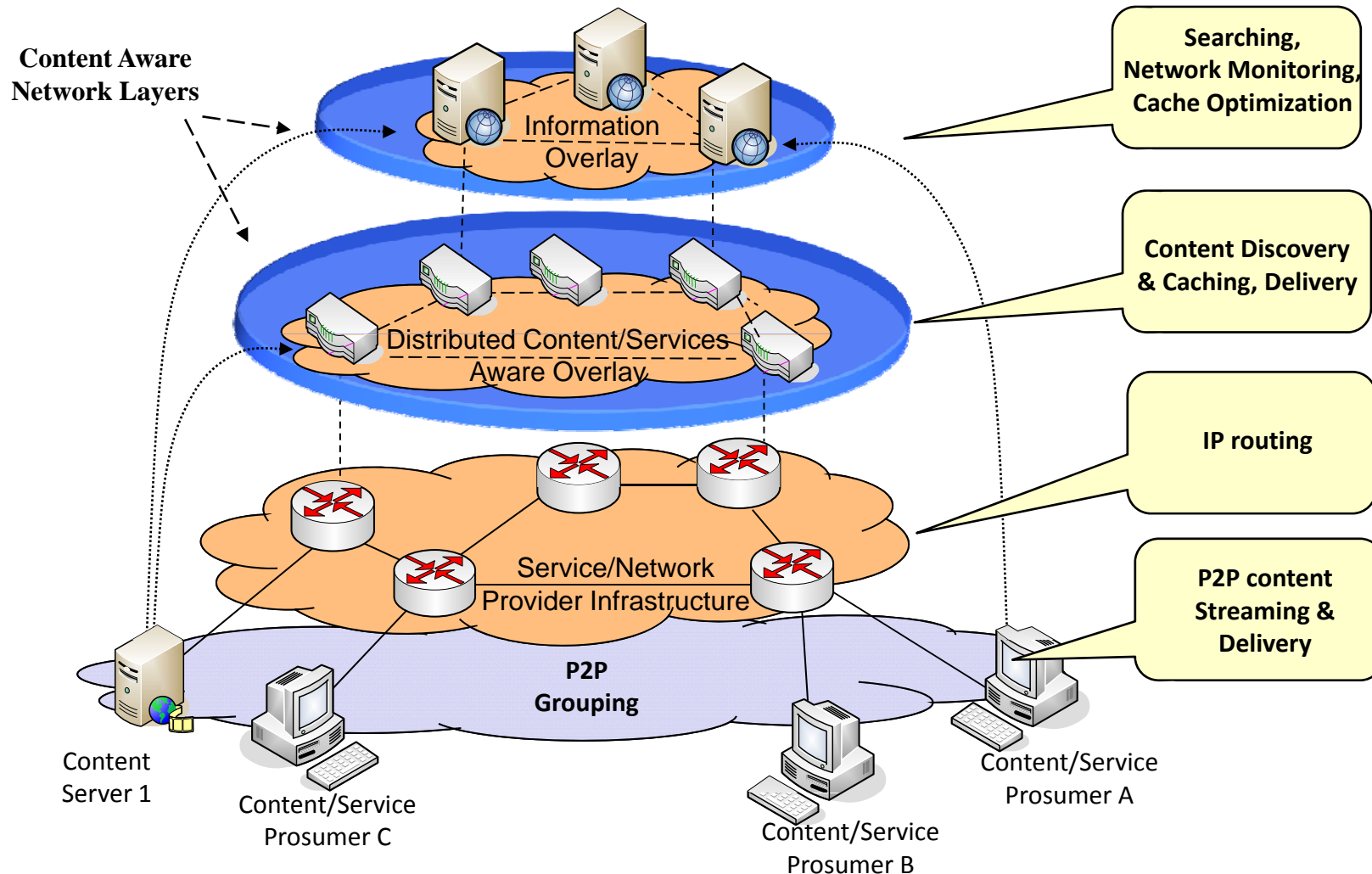
# Overlays Requirements

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- Heterogeneity in the network nodes capabilities
- Heterogeneity in topology/bandwidth capabilities
- Heterogeneity in processing & storage capabilities
- Heterogeneity in the delivery/streaming requirements
- Heterogeneity in the security requirements
- Heterogeneity in the network/domain administration
  
- We need an **abstract universal representation of nodes and virtual grouping of collaborating nodes** to create homogeneous sub-networks.

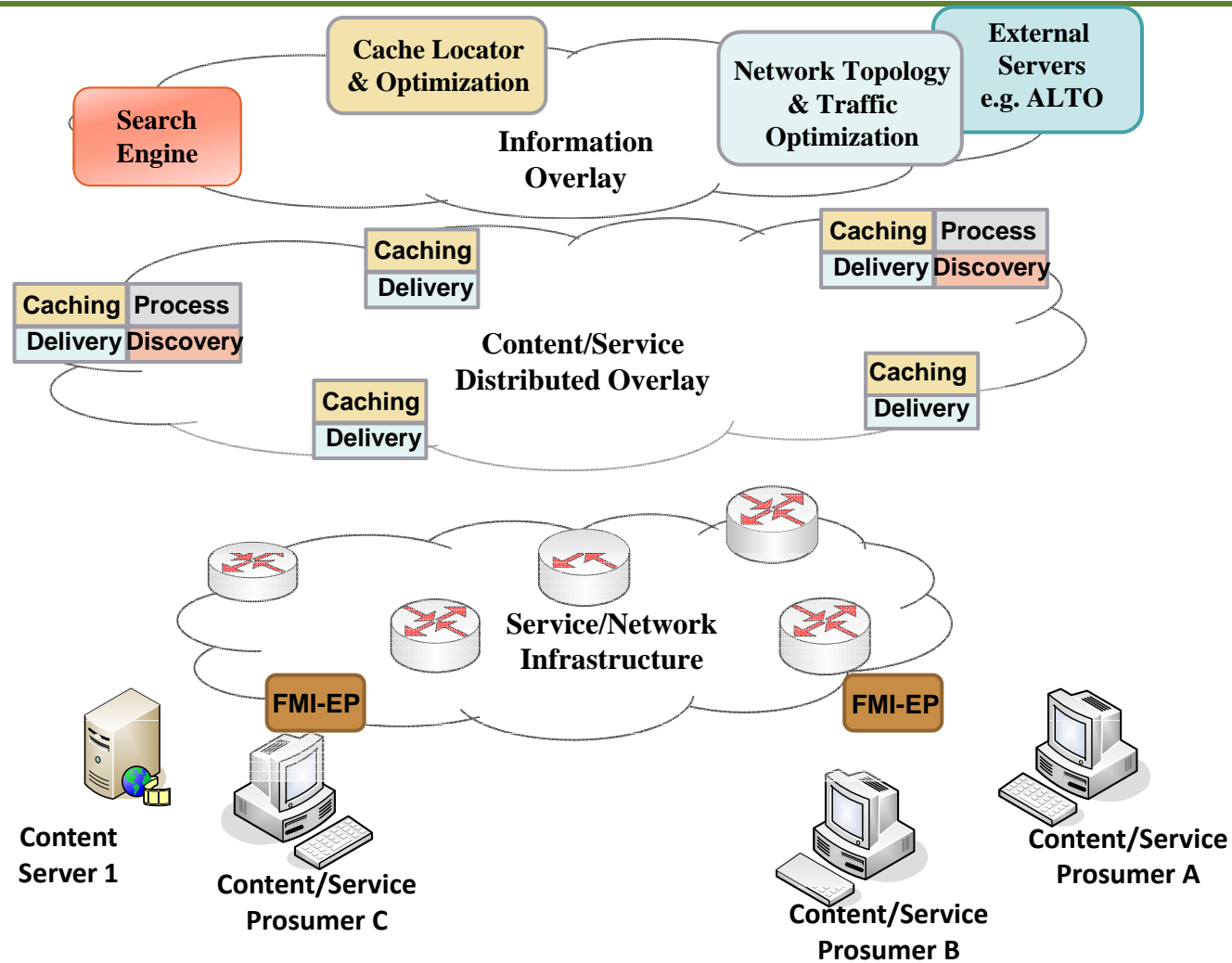


# Content-Aware Network Overlays



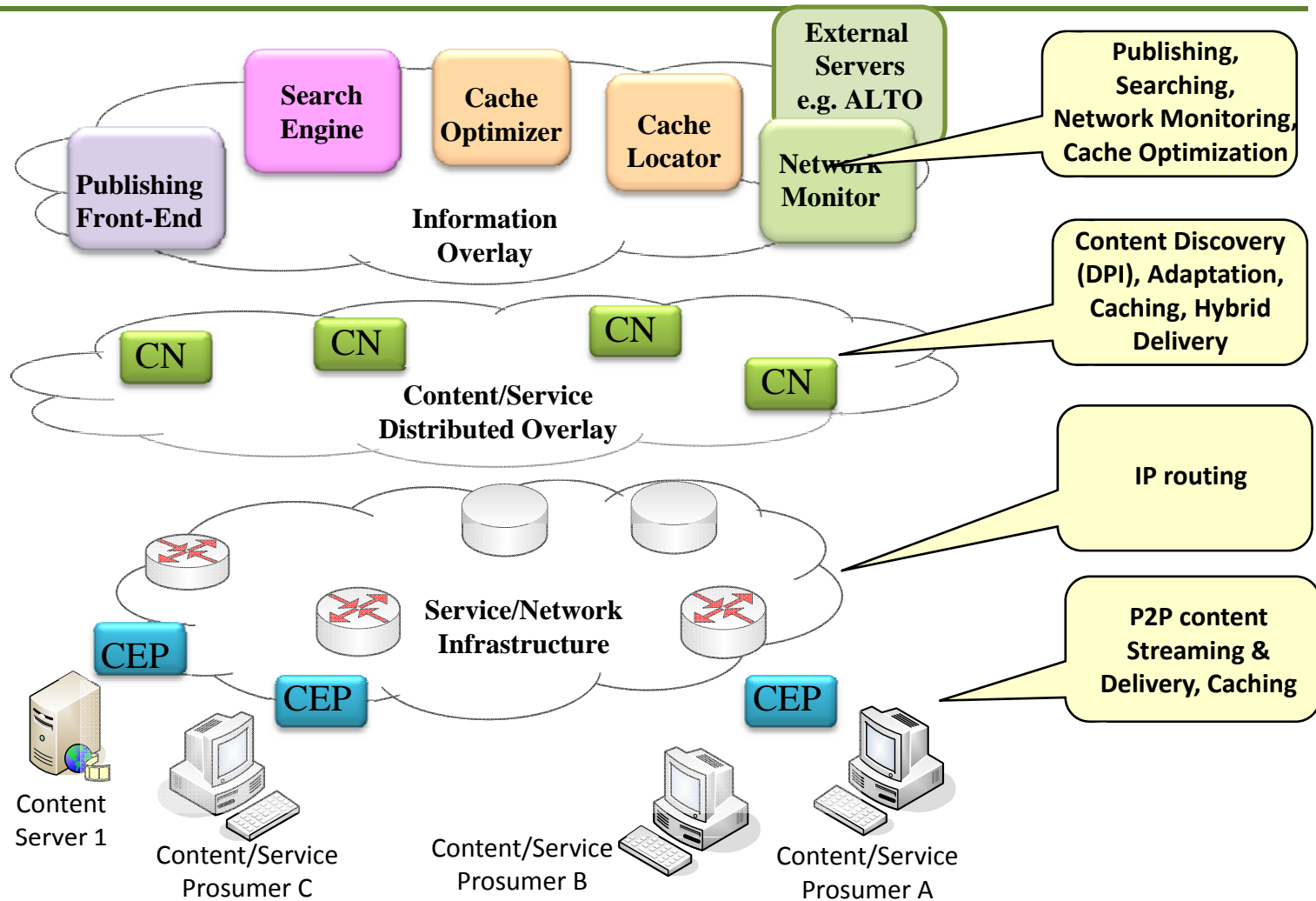


# Future Media Internet Architecture Reference Network Architecture



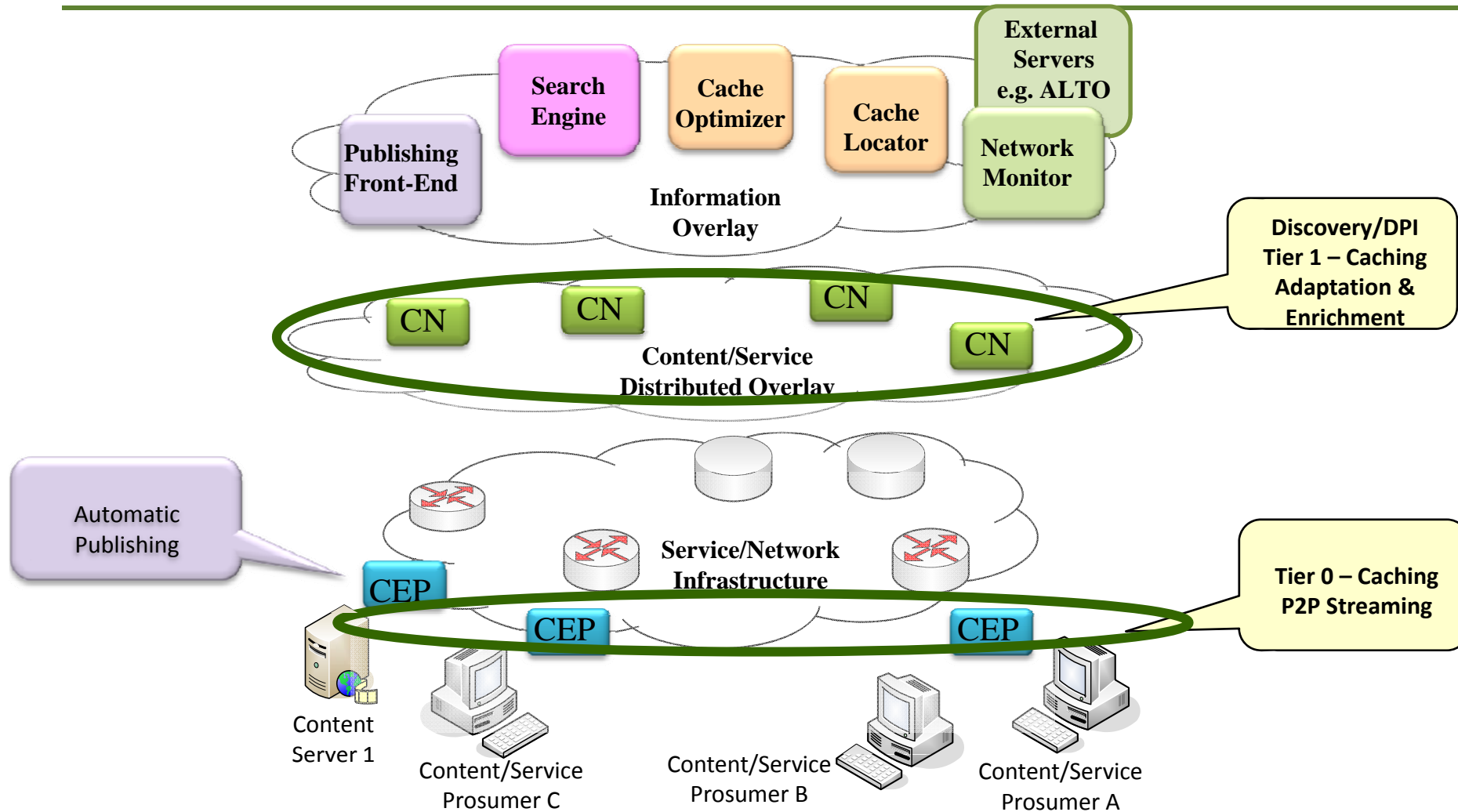


# COAST Reference Network Architecture



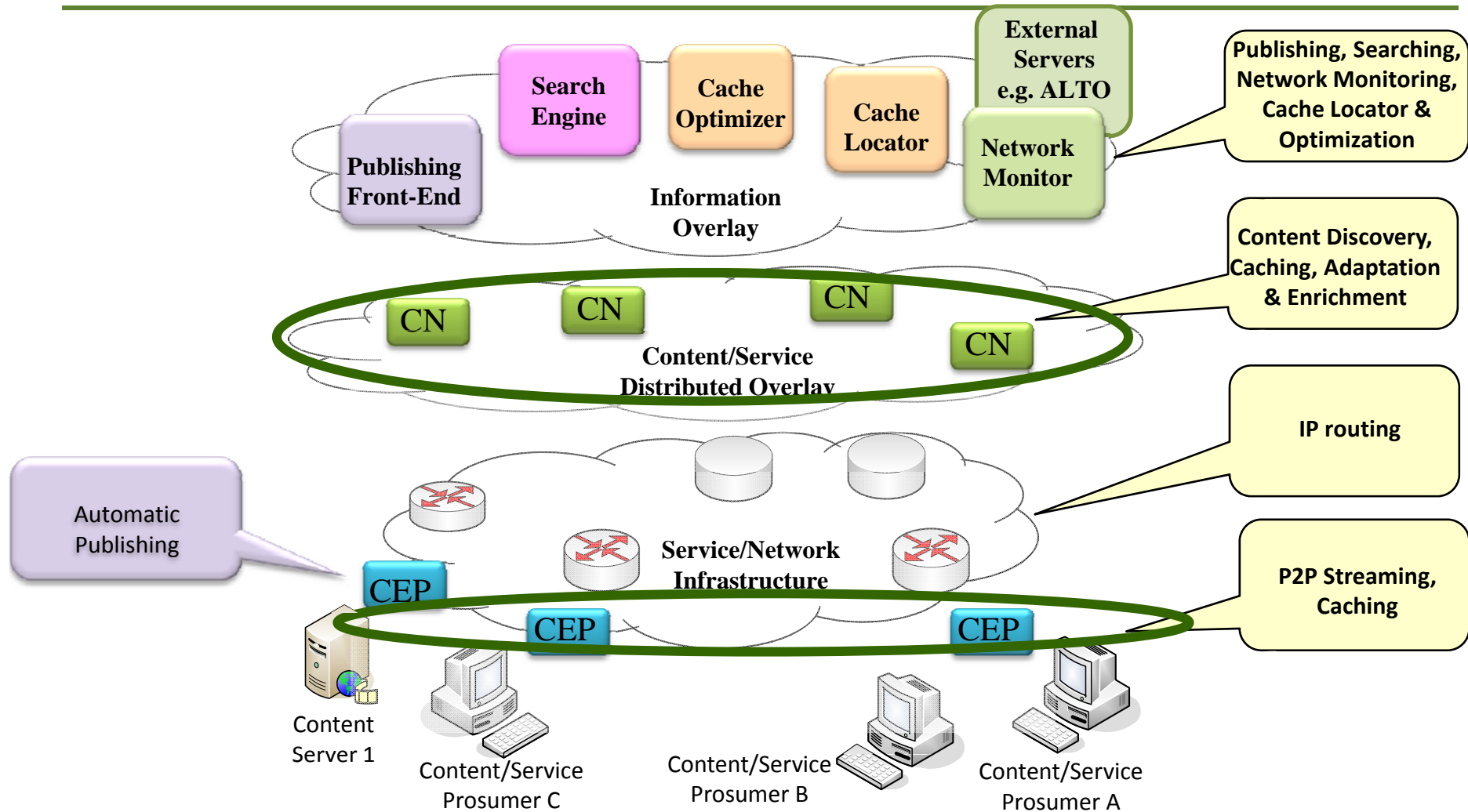


# COAST Architecture Implementation





# COAST Network Architecture Implementation





Thank You

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