

Yallcast Architecture Overview

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“Distribution” Today: Two Parallel Tracks

- IP Multicast
 - Simple, automatic, standardized
 - Has problems, hasn’t reached “critical mass”
- Server-based
 - Broad functionality, almost everything server-based today
 - Application-specific, ad hoc, no standards, management-intensive

Yallcast Goal: Unify Both Tracks

- “Host”-based distribution tree
 - Tunneled over IP unicast (and multicast)
 - Buffering in hosts (or not)
- DNS name-based group addressing
- Dynamically self-configuring topolog

Status of Yallcast

- Basic algorithms worked out
 - Especially dynamic tree configuration
- Experimental implementation
 - Jan. 00 release target
- Many many open issues
- This talk is a call for participation
 - Certainly not a call for standardization

Yallcast Architecture Overview

- Rendezvous Nodes:
 - Bootstrap members into tree-mesh
- Member Nodes:
 - Dynamically configure into tree-mesh
 - Send, receive, and forward frames
- Group ID:
 - rendezvousName, treeName, [udpPort]

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