Distributed Multipoint Conferences
draft-mark-sip-dmcs-00.txt
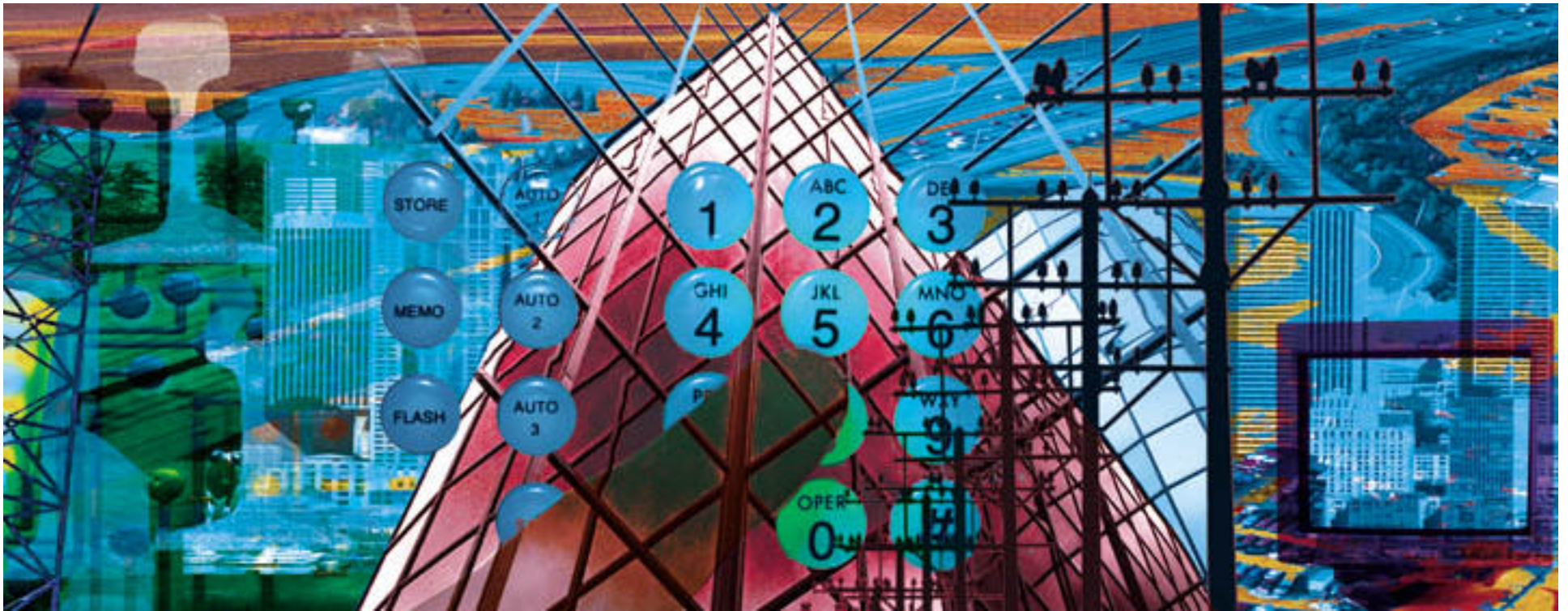
Jeff.Mark@dialogic.com
Kalon.Kelley@dialogic.com
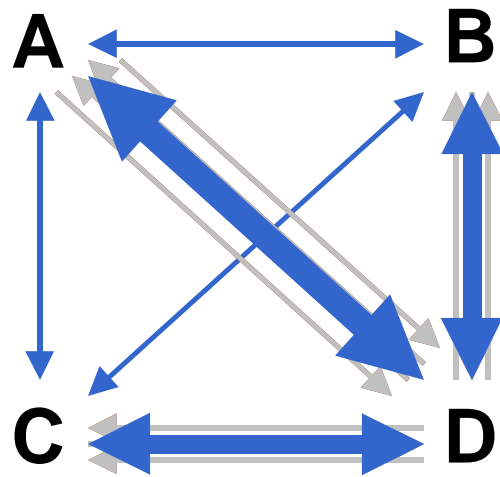
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Overview

- Resolve open issues with draft-ietf-mmusic-sip-cc-01 [Jun 1999]
  - Full meshes: admission into conference, rejected during join, status / version not needed
  - Alternate solution to "crossing invite" problem
  - Transfer: alternate implementation ideas.
- Introduced new services
  - Merge: 2 full mesh ➜ 1 full mesh calls
  - Split: 1 full mesh ➜ 2 disjoint full mesh calls

Add Party

A   B

SIP Message Traffic

ACK
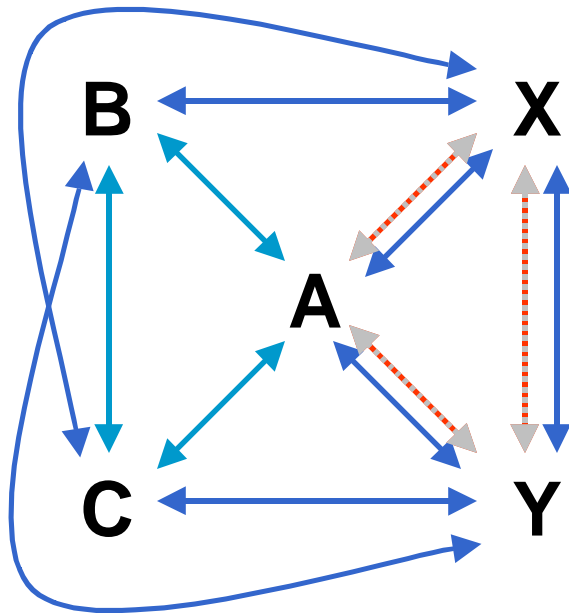To: D
From: A
Call-ID: blue

C   D

- Three-way mesh call (A, B, C)
- A wants to add D.

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Merge

SIP Message Traffic

Red to blue transition:
INVITE Y
To: Y
From: X
Call-ID: blue
Also: A, B, C
Replaces: X; call-id=red
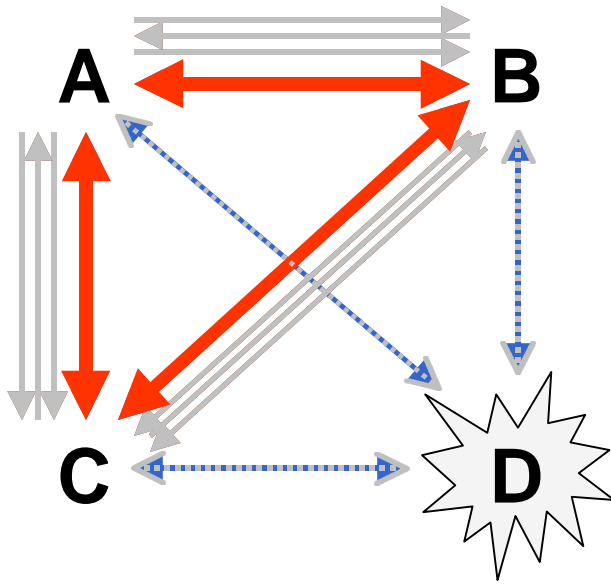Call-Disposition: merge; call-id=red

- Two full mesh calls (blue & red)
- A wants to *merge* red into blue.

Split

SIP Message Traffic

BYE D	BYE D
To: D	To: D
From: A	From: C
Call-Id: blue	Call-Id: blue

BYE D
To: D
From: B
Call-Id: blue

- One full mesh calls (blue)

- A wants to *split* B,C → red (ABC), blue (D) call.

- D represents a group of other participants

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Summary of our approach

- ## No new methods

- ## Added / redefined some headers

  - ### Also, Replaces, Call-Disposition, Status, Rejected-By, Unresponsive

- ## New response codes

  - ### 1xx Seeking Admission

  - ### 1yy Pending Request

  - ### 4ww Admission Failed

  - ### 4zz Colliding Request

What's Next

- Interest in distributed full mesh scenarios?
- Comments?