

vCon for MIMI instant messages

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Instant Messaging Use cases

- 1) IM applications allow multiple clients for the same user (ex: laptop and mobile, or old mobile phone migrating to new mobile phone)
- Securely share message history from an existing device to a new device = nice way to share messages that the new client could not have an end-to-end session for.
- 2) Group chat with substantive discussion, then add some users
- Allow an admin to “catch them up” by sharing message history from some relevant point in the past

Example syntax

```
vcon {
  parties [
    { name: Alice, imUri: im:@alice@example.com },
    { name: Bob, imUru: im:@bob@example.com }
    ...
  ],
  dialog [
    {
      messageId: 28fd19857ad7@example.com,
      start: 2022-02-08T22:13:45-00:00,
      type: text,
      parties: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12],
      originator: 2,
      mimeType: "text/markdown;charset=utf-8",
      body: "Hi everyone, we just shipped release 2.0. __Good work__!",
      disposition: render
    },
    { // Reply
      messageId: e701beee59f9@example.com,
      start: 2022-02-08T22:13:57-00:00,
      type: text,
      parties: [0, 1, 2, 3, 7, 8, 9, 10, 11, 12, 13, 14],
      originator: 4,
      inReplyTo:messageId: 28fd19857ad7@example.com,
      disposition = render;
      mimeType: "text/markdown;charset=utf-8",
      body = "Right on! _Congratulations_ 'all!"
    },
    {
    }
  ]
}
```

```
{ // Like
  messageId: 1a771ca1d84f@example.com,
  start = 2022-02-08T22:13:57-00:00,
  type: text,
  parties: [0, 1, 2, 3, 7, 8, 9, 10, 11, 12, 13, 14],
  originator: 5,
  inReplyTo:messageId: 28fd19857ad7@example.com,
  disposition = reaction,
  mimeType: "text/plain;charset=utf-8",
  body = "♥"
},
{ // Mention
  messageId: 4dcab7711a77@example.com,
  start: 2022-02-08T22:14:03-00:00,
  ...
  body: "Kudos to [@Alice Smith](im:alice-smith@example.com) for
making the release happen!"
},
{ // Edit
  messageId: 89d3472622a4@example.com,
  start: 2022-02-08T22:14:08-00:00,
  replaces: e701beee59f9@example.com,
  ...
  body: "Right on! _Congratulations_ y'all!"
},
{ // Delete
  messageId: 89d3472622a4@example.com,
  start = 2022-02-08T22:14:08-00:00,
  replaces: e701beee59f9@example.com,
  ...
  body = null
}
]
```