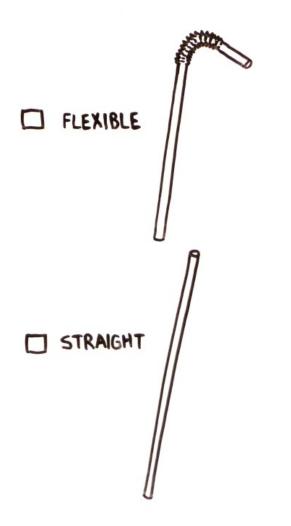
STRAW POLL WHICH DO YOU PREFER?

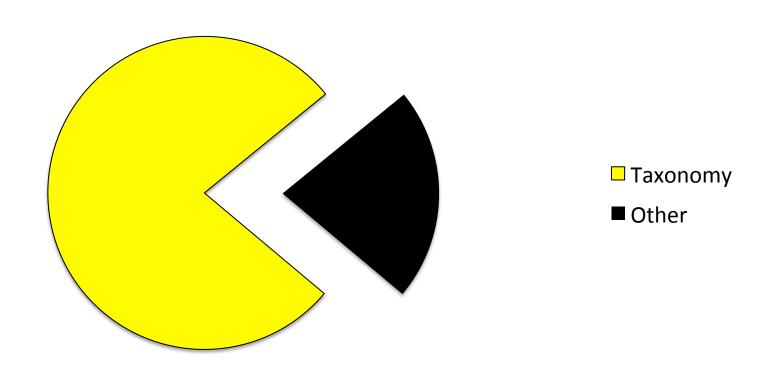


A Taxonomy of SIP B2BUAs draft-kaplan-straw-b2bua-taxonomy (now a WG doc)

tax-man: Hadriel Kaplan

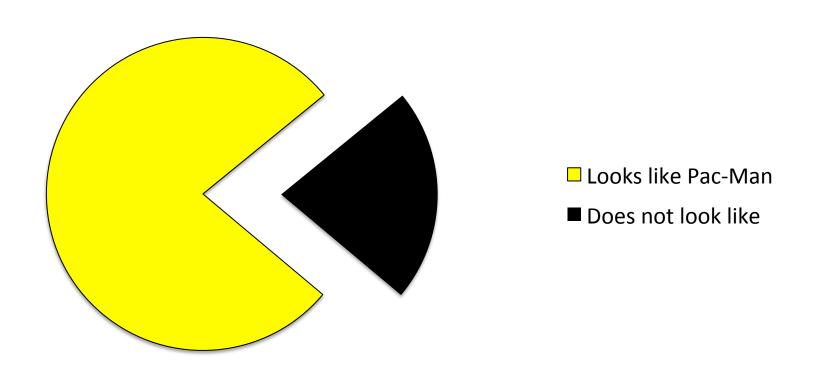
STRAW Working Group Topics

STRAW discussion topics



A similar chart...

Percentage of chart which looks like Pac-Man



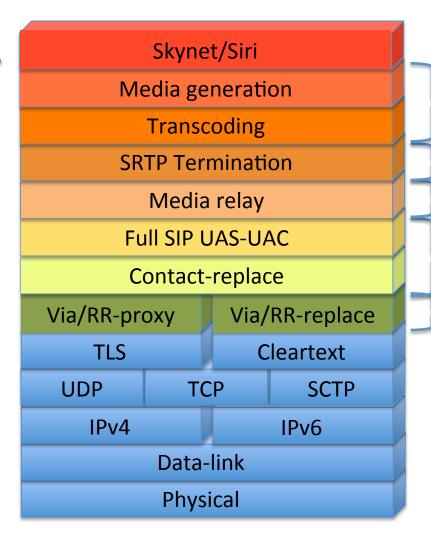
The Problem(s)

- To write a STRAW doc, we need to define what "types" of B2BUAs the doc applies to
- We could do this in every doc, or we could do it in one doc: a Taxonomy
- BUT, there may still be some STRAW docs that need to define special cases or sub-types
 - For example, a B2BUA that handles IPv6-IPv4 interworking may need to have different requirements than one that does only IPv4 or IPv6

So how many B2BUA types are there?

- Too many this WG can't define them all (we don't even know them all!)
- But really we don't need to list them all just the major/basic types that would make a difference for STRAW stuff
 - E.g. relays media or not, transcodes media or not, acts like Proxy vs. full UA for headers, etc.
- So I've chosen to differentiate based on what "layer" the B2BUA operates at/on





Media-termination B2BUA

-Media-aware B2BUA

Media-Relay B2BUA

Signaling-only B2BUA or

SDP-Modifying

Proxy-B2BUA

Media layer
B2BUAs

Signaling layer B2BUAs

Proxy-B2BUA

- This is a pure RFC-3261 Proxy, except...
 - It maintains enough state info to send in-dialog requests
 - Example: terminate a dialog by sending a BYE, or send UPDATE/re-INVITE to check liveness
- Does not modify headers/bodies
 - Except inserts Via/Record-Route, decrements
 Max-Forwards, etc., per 3261

Signaling-only B2BUA

- May replace any/all headers, terminates/ processes REFER, modifies specific bodies, etc.
 - I.e., an App Server or non-media PBX
- Does NOT touch media
 - Does not modify SDP

SDP-Modifying Signaling-only B2BUA

- May replace any/all headers, terminates/ processes REFER, modifies specific bodies, etc.
 - I.e., an App Server or non-media PBX
- Does NOT touch media, but DOES modify SDP
 - Understands SDP to some degree

Media-relay B2BUA

- A middlebox that relays UDP/TCP "media" packets, understands and modifies SDP
 - i.e., a plain-vanilla media-proxy
- Does NOT look into RTP/RTCP, does not transcode, terminate SRTP, munge RTP/RTCP, etc.
 - If it does that, it's a media-aware or mediatermination B2BUA

Media-Aware B2BUA

- A middlebox that knows it's relaying RTP/ RTCP, looks into them for quality stats, or terminates SRTP
 - i.e., most common SBC role
- Does NOT transcode nor act as a B2BUA at the RTP/RTCP layer

Media-termination B2BUA

- A middlebox that is a B2BUA for media, such as transcoders
 - This is the full shebang
 - This would be a PSTN gateway, except the context of a B2BUA would be SIP on both sides so PSTN Gateway wouldn't apply

Open Issues

- Should we classify Conference Servers as B2BUAs for STRAW?
 - Right now they're not really, because they're typically multiple UAS', not a UAS-UAC pairing