Media Resource Brokering

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draft-ietf-mediactrl-mrb-03
Changes since -02

• Fixed several nits/typos
  • Terminology and clarifications
• Added support for SIP 3xx response in IAMM
  • An alternative to multipart/mixed
• Examples section
  • Publishing example
  • Consumer examples (both Query and IAMM)
Next version: -04

- Address what needs to be fixed
  - DTMF support (INFO?)
  - Extensibility of the schemas
  - Call legs management
- Address RAI Expert Review comments (thanks to Ben Campbell)
- WGLC
DTMF support

- “INFO” listed in DTMF support, BUT...
  - No standard available
  - At least three (or more?) incompatible usages
  - MS don't even support it (do they?)

- Ok to drop it?
  - Any reason not to?
Extensibility of the schemas

- Both schemas not extensible at the moment
  - msstatus, action, actions, dtmf, vxml
- Should they be?
  - Signaling needed to address it?
  - ...or just let the MRB barf or ignore or default unrecognized values?
Call legs management (1)

- Query
  - Consumer returns SIP URI (MS)
    - AS attaches call legs there

- Inline-aware (IAMM)
  - AS still gets MS SIP URI eventually
    - Same as Query

- What if MRB may/wants to be in the path?
  - Ok for MRB to allocate URI to map with MS URI?
Call legs management (2)

- Inline-unaware (IUMM)
  - MRB always on the signalling path
  - AS sees MRB as actual MS
    - What if >1 CFW sessions to separate MS?
- Potential issue relaying calls
  - Always relay to the same MS?
  - Some kind of session-related token?
    - conference-id proposed, but has drawbacks
    - Whatever it is, Control Framework must support it
RAI Issues (1)

- Subscriptions
  - Why yet another way? Why not SIP Events?
    - Long discussions at earlier meetings
    - All entities speak CFW (native notification mechanism)

- IAMM with 3xx is like Query
  - Why two ways to accomplish the same thing?
    - Originally IAMM only envisaged multipart/mixed
    - 3xx added to address concerns from the list
    - Remove it again?
RAI Issues (2)

- Inline MRB as B2BUA
  - Very similar to caller-prefs (RFC 3841)
    - Will look at it, thanks!
- Multipart/mixed payload
  - Required/supported for body parts
    - Good point, will add them to the next version
  - Fixed ordering in multipart not acceptable
    - Will fix this in the next version
RAI Issues (3)

• Lease mechanism
  • MRB managing resources or just keeping track?
  • Can MS and MRB get out of sync?
  • Can a MS be contacted directly?
  • What if multiple MRBs involved?
  • Scope of “expires”?
    - We definitely need to clarify the role of leasing in the doc... what is your feeling about this?
RAI Issues (4)

- Error codes
  - Just 409 and 410?
  - Don't re-use HTTP/SIP/etc error codes
    - Next version will have all error codes added

- Uniqueness requirements
  - Scope, chance of collision, etc. for all IDs
    - Definitely need to be clarified
    - “Unique within the scope of MSs controlled by a MRB”? 
RAI Issues (5)

• Explaining “seqnumber”
  • Infer gaps? Roll over? Separate in each direction?
    – Will clarify its role in the next version

• “non-active-” sessions
  • Clarify what non-active -mixers and -rtp-sessions are

• Deactivated vs. Unavailable
  • No practical difference, but may be useful to have both

• What goes in “name”, “package”, “format”, etc.
  • Will clarify the constraints
RAI Issues (6)

• Security considerations
  • B2BUA modifies bodies (affects SIP security)
    – Good point, will add this
  • Channel security vs. Authorization
    – Good catch, will clarify that only authorized AS are allowed to communicate with an MRB
Questions?
Further discussion?