Media Resource Brokering

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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)

  - http://www.ietf.org/mail-archive/web/rai/current/msg00747.html

- 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?