

Partial Publication

SIMPLE Interim Meeting

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Requirements

- SIMPLE Presence Publication Requirements
(draft-ietf-simple-publish-reqs-00)

REQ10: "It must be possible for a PUA to send full presence information (all of the presence information that the PUA knows about a presentity) in a publication, and **there should also be a way for PUAs to send partial or incremental presence information.**"

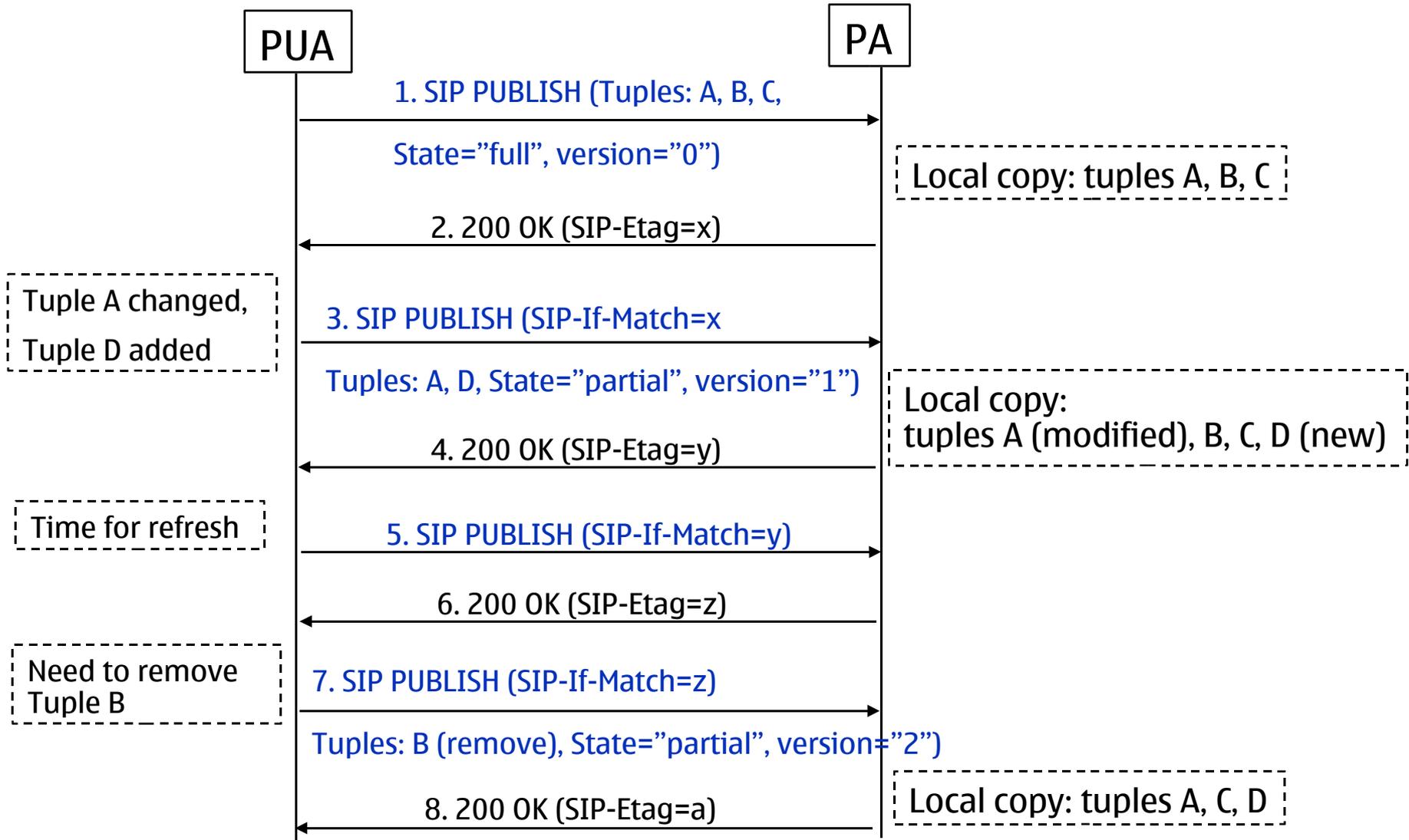
Use Case Preconditions

- PIDF structured as a set of tuples
 - typically a presentity will advertise several tuples
- Time between updates varies considerably depending on the tuple
 - Mailto: almost exclusively OPEN
 - Telephone: <activity>on-the-phone</activity>
- External content in some tuples, e.g., icons, vCards, sounds

Use Case

- Attributes change inside individual tuples
- Publisher sends only changed tuples

Solution



In More Detail

- Uses the same content type “application/pidf-partial+xml” as partial notifications
- Applies to “initial” and “modify” operations of SIP PUBLISH
 - Initial publication contains “full” event state
 - Modify operation contains either “full” or “partial” event state
- Operates at the tuple level
 - Changed tuples delivered
 - Removal of tuples using tuple-id reference
 - Elements under <presence> always delivered

Alternatives to Partial Publish

- Out-of-the-box PUBLISH with multiple “virtual” PUAs – splitting up the document
 - Publication of elements under <presence>?
 - Refreshes generate lots of extra traffic
 - Compositor complexity increases (never a single PUA)
- Out-of the-box PUBLISH Using content indirection – indirecting external content
 - Works only for external content

Conclusion

- Proposal available, please read and comment:

<http://www.ietf.org/internet-drafts/draft-lonnfors-simple-partial-publish-01.txt>

- Interested in moving forward as WG item?