File Transfer Services in the Context of SIP Based Communication

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NOK
Connecting

Motivation

- SIP provides an extensive set of mechanisms for user-to-user communication
    - Identity, personal mobility, Security, NAT traversal
- It would be desirable to integrate user-to-user file transfer services to that framework together with multimedia sessions, IM, presence and conferencing
    - Combined use utilizing SIP identity
- Implementations of file transfer services already exist in SIP UAs
    - Need to address interoperability

- This is not an attempt to
    - Define how SIP itself is used to transport files
    - Standardize how the UI should work
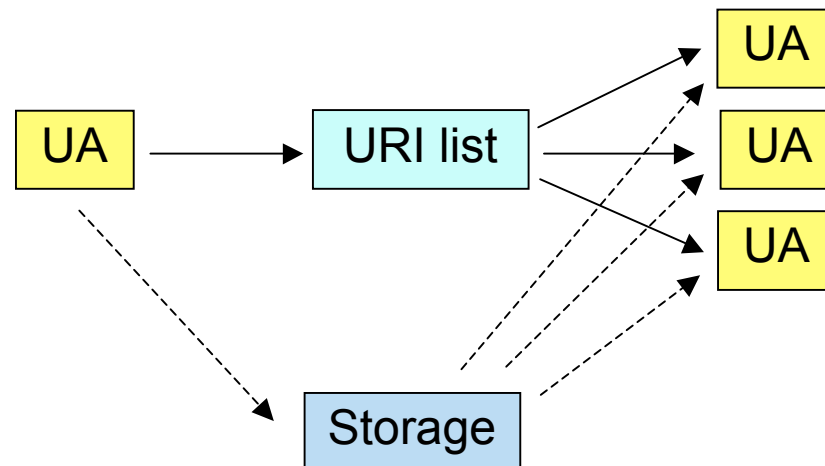   - Re-invent existing mechanisms such as HTTP, FTP, e-mail or IM

Scenarios – Ad Hoc or "Page-mode"
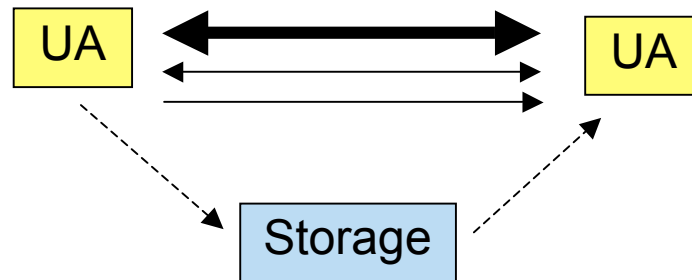
- One-to-one
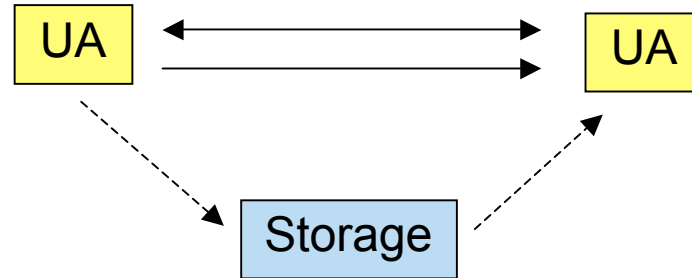
- Signaling before actual transfer
  - UAS can accept or reject
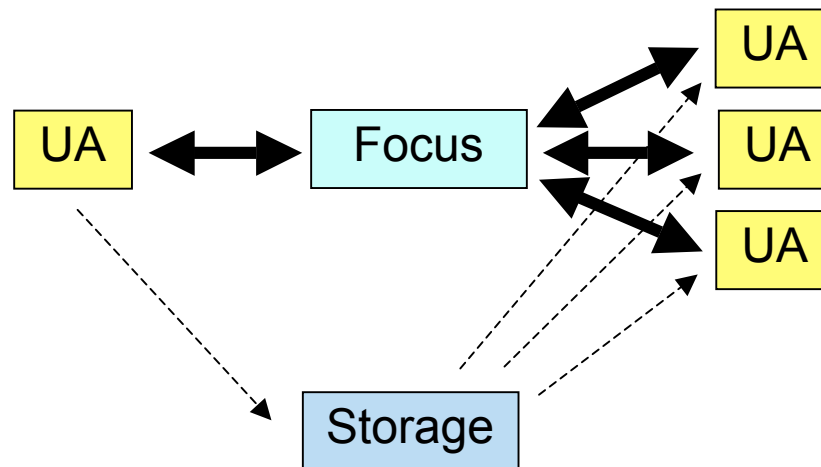- Directly or via a storage

- One-to-many

Scenarios – Session Related

- One-to-one session

- Everything happens within the scope of the session/conference
  - UAS can accept or reject

- Conference

Existing Solutions and Potential Work

- There are already existing components that can be used
  - SIP MESSAGE + Content indirection + HTTP/TLS
  - MSRP
- Useful components under development
  - MSRP conferencing (perhaps by 2010?)
- Potential new work
  - Completing requirements document
  - MSRP with content indirection
    - Short document needed?
  - File transfer negotiation mechanism
    - Request with metadata, Accept/Reject
  - Scenarios document
    - Informational/BCP describing how to do these things to improve interoperability