



# Discovery requirements



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# Problem statement

- A service specific identifier (SSI) identifies a unique user within a single service provider's service and encodes the service provider in the identifier
- A service independent identifier (SII) identifies a unique user independent of any specific service
- We have to work with existing SII's
  - E.164 phone numbers
  - Email addresses
- *User discovery* allows an SII for a given user to be resolved into one (or more?) SSIs for that user

# Open questions

- Which actors should be trusted authorities for mapping SIIIs to SSIs?
- Does discovery need to scale to accommodate 10s, 100s, or 1000s of service providers?
- What is it acceptable for queries to reveal about the social graph, and to whom?
- Is rate limiting useful to prevent scraping?
- An SII may map to multiple SSIs. Should the requestor learn all of them, and if so, how?
  - One service that returns all SSIs for an SII?
  - Query each service provider independently?
  - User figures out out-of-band what service provider to query?