

# Thoughts on Authentication Issues of WEIRDS

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# Backgrounds

- ... may use standard features of HTTP to support differential service levels to different classes of user. [Charter]
- How to define objects so you can restrict access to certain resources within the object. [A.2. Service Differentiation in a REST-pect-ful way.]

# Discussions in the Mailing List

- Discussion on the mailing list [thread with subject "REST-pect-ful" and "Authentication Methods"]
  - One query or multiple queries?
  - One credential or multiple credential?
  - One party or multiple parties authentication?
  - Can we work from the assumption that authentication is through features offered by HTTP?
  - What would we be closing the door on if we require that we only rely on features offered by HTTP?
  - Which authentication mechanism **MUST**, **SHOULD** or **MAY** be implemented?

# Questions for Confirmation, Consensus or Discussion

1. What does authentication mean, what do we need:

- **Authentication of Client**
- Authentication of Server?
- Authentication of Data (integrity, confidentiality, tls) ?

2. No difference for whois of names and numbers

### 3. Requirements, service differentiation

#### 1. Authentication level:

- Public: open to all
- Group: open to a group of people, could be based on membership
- Authorized: open to particular people with permit, could be based on token
- Private: open to none

4. Data granularity in authentication:  
phone number or the whole contact info?

5. Does searching/redirect affect authentication?  
Are they orthogonal?

- if orthogonal, should go a head without worrying about searching.
- if not orthogonal, should the authentication for searching be left for another work till we know what the WHOIS searching/redirect will be?

## 6. Possible scenario (non-searchable)

- Client-Server authentication
- Third party authentication

Do we need one of them or both

## 7. Possible authentication method to use

- Digest Authentication in RFC2617 ?
- OAUTH 2.0 ?
- TLS ?
- Others?