

Who are you?

Why does it matter?

Who am I?



Ben Klang

Who are you?



# TYPES OF IDENTITY



# TYPES OF IDENTITY

- Professional
- Personal
- Semi-Anonymous/App-Specific
- Fully Anonymous/Ephemeral

One Size  
Does Not Fit All

# Identity & Software




# IDENTITY & SOFTWARE

- Identity in Software must be:
  - Reduced to machine address
  - Unique within population
  - Support application requirements

## IDENTITY &amp; SOFTWARE EXAMPLES

 bklang@mojolinggo.com

+14044754841 

? sip:asd8f9dfk760@example.com;gruu



@bklang



# ELEMENTS OF IDENTITY

- Federated vs. Island
- Strong or Weak Assurance
- Centralized or Decentralized Authority
- App-centric vs. Network-centric
- Privacy Expectation
  - Public: anyone can call
  - Private: pre-approved contacts can call

# The big WebRTC Debate

To Federate,  
or not to Federate?

# FEDERATED IDENTITY

- It Depends
  - Ephemeral relationships - No
  - Recurring relationships - Maybe
  - Public/Advertised Contact Info - Yes



# Learning from Experience



E.164 Telephone Numbers

# FEDERATED ID: E.164 PROS

- Easy to communicate
- Semi-anonymous
- Universally accepted
- Portable/long-lived

# FEDERATED ID: E.164 PROS

- Too easily spoofed by attackers
- Difficult to use aliases or groups
- Tied to a device or physical location
- Very disruptive to change
- Irrevocably tied to insane billing schemes

# SUMMARY

- Federation & WebRTC:  
Tempest in a Teakettle
- Identity is what you need it to be
- Make conscious choices -  
your users will thank you



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