

UK VERIFY SHARED SIGNALS ALPHA PROJECT

A black and white photograph of a dead, skeletal tree in a field under a stormy, cloudy sky. The tree is the central focus, with its bare branches reaching out against the dark, heavy clouds. The ground is a flat, open field, and there are other trees and a building visible in the distance. The overall mood is bleak and ominous.

Data breaches, identity theft, and online fraud

... all the trends are heading in the wrong direction

THE ACCOUNT RESET PATTERN

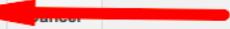


Current password 

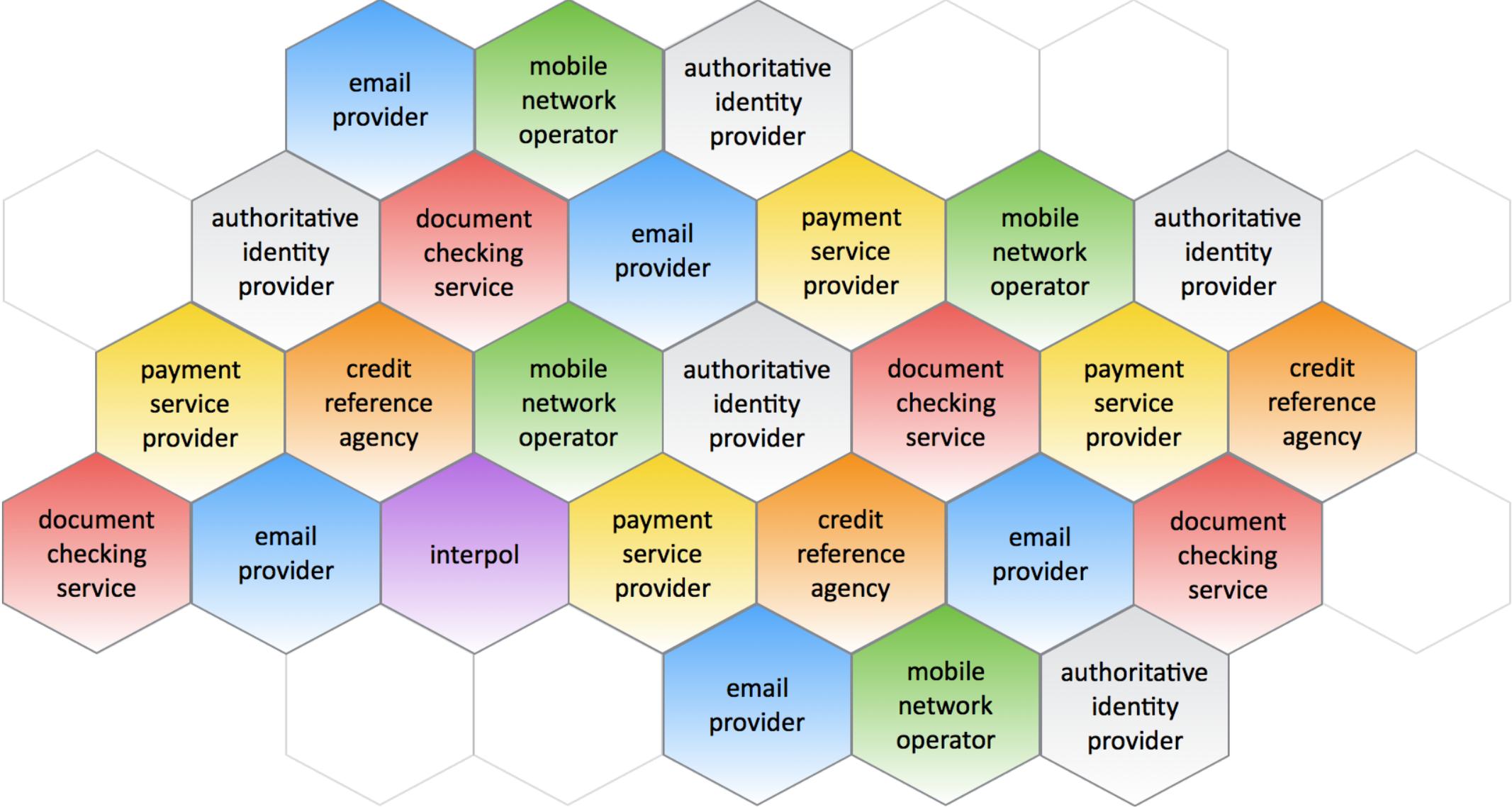
[Don't know your password?](#)

New password 

Confirm new password 



IDENTITY ECOSYSTEM

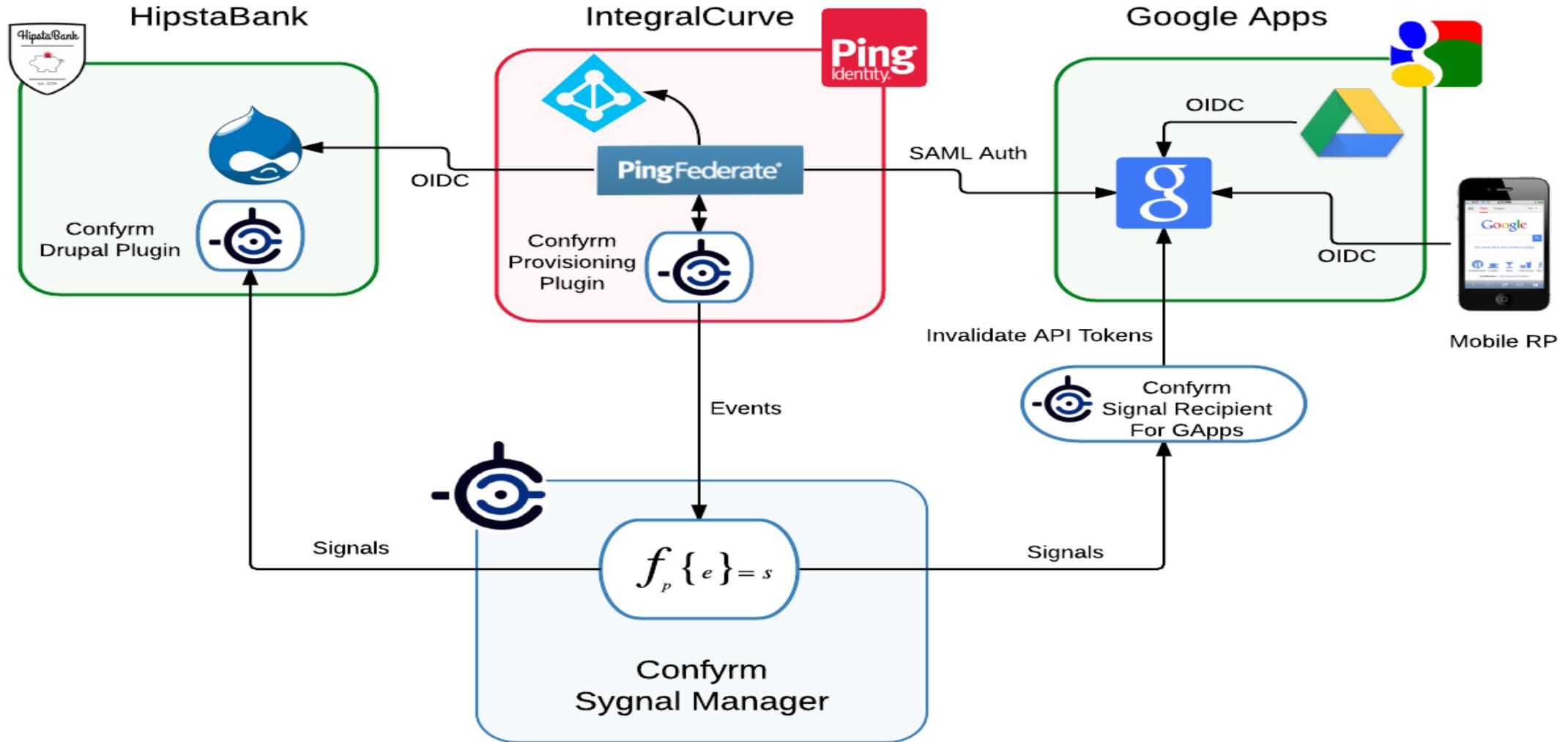


CLEARINGHOUSE AND ALERTS

- Protect personal privacy / data limitation
- Protect brand of event publishers
- Aggregation of signal recipients
- Standard trust framework
- Aggregation of event publishers
- Lightweight identity alerts
- Real time distribution
- NSTIC development grant



GOOGLE/PING ID PASSWORD RESET DEMO



HISTORY

- OIX UK Govt Shared Signals Whitepaper, Sept '13
- Google Shared Signals Presentation, Oct '13
 - October Internet Identity Workshop
- UK IDAP Shared Signals Discovery Project, Sept '14
- NSTIC Shared Signals Project, Oct '14
- OI DF RISC WG, Jan '15
- UK Verify Identity Providers, Nov '15
 - Phase II DigID, Post Office, Barclays, GBG, Experian

PARTICIPANTS



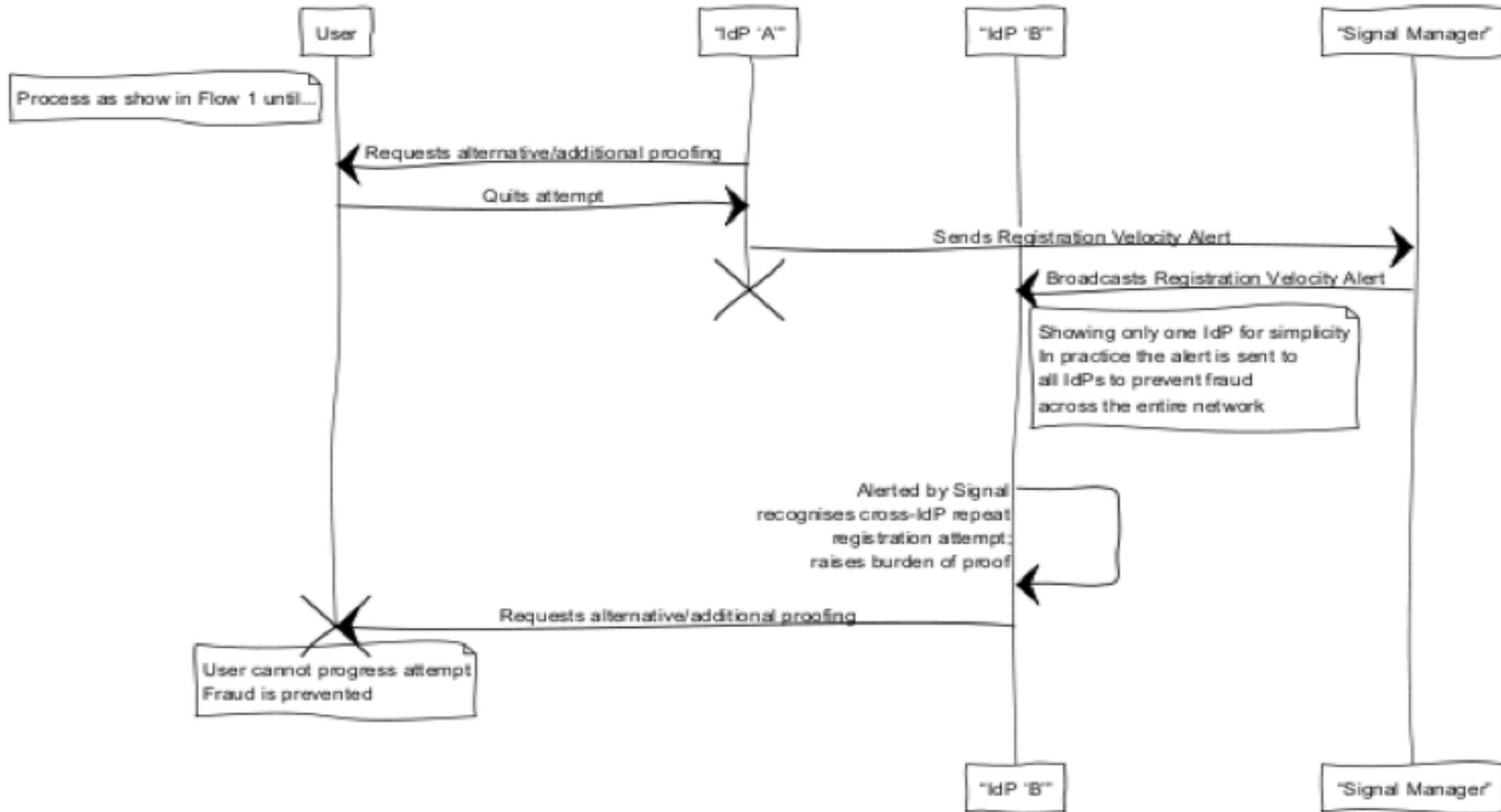
OBSERVERS



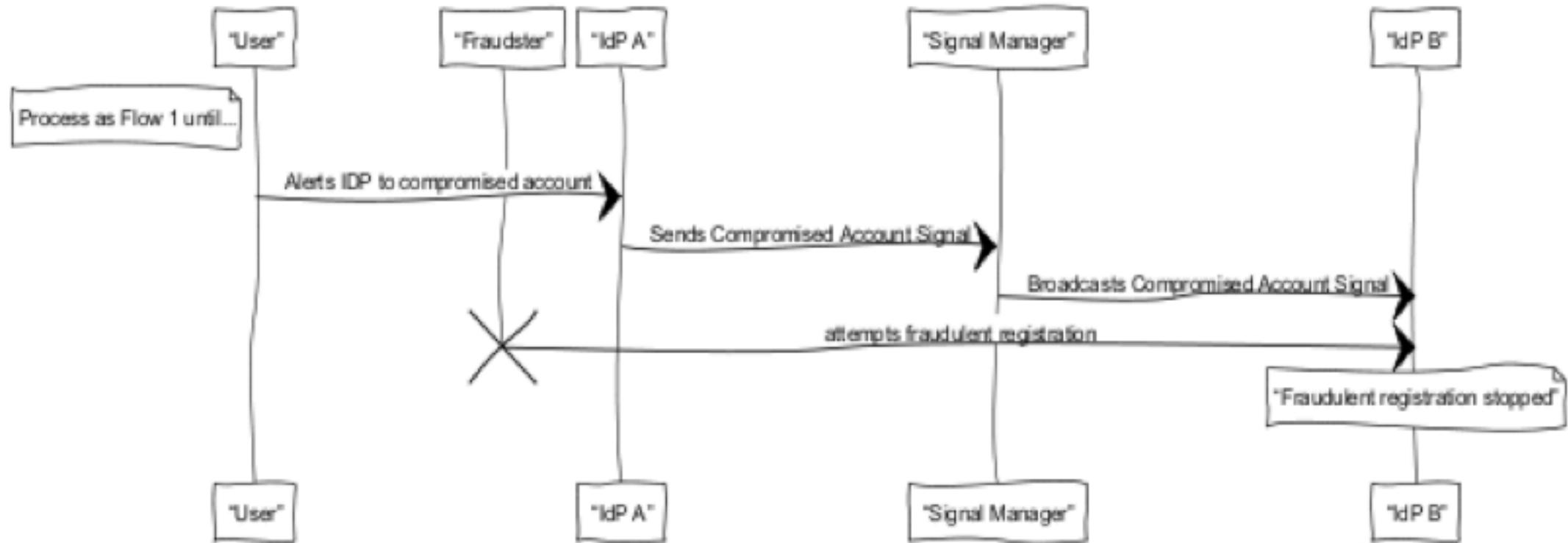
USE CASE CREATION

- What are actual / emerging issues
- Can an IDP generate an event
- What info could be provided about the event
- Can an IDP utilize the signal
- What information would they need to process the signal
- How could we minimize the data exchange

REGISTRATION VELOCITY

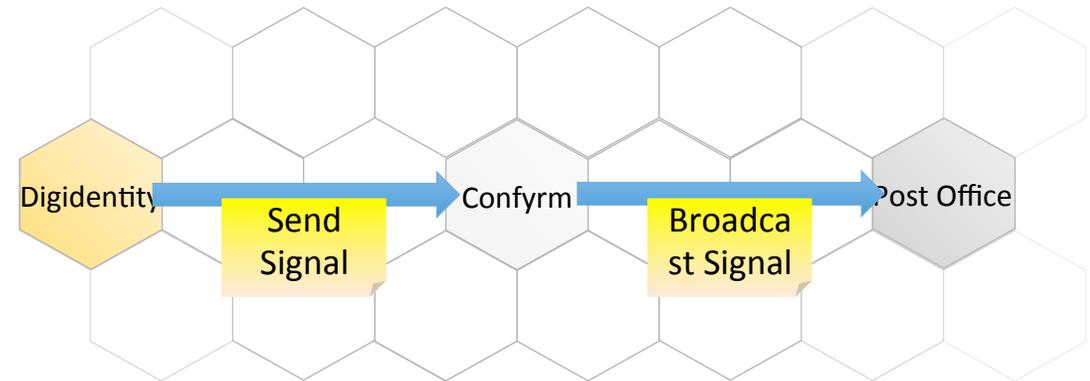


ATO / GHOST IDENTITIES



UK COMMERCIAL HIGH ASSURANCE

- “Registration Velocity” & “Account Takeover”
- Infrastructure deployed
- API integration
- Test signals exchanged
- End-to-end Event Publication and Signal Reception
- Phase II includes other IDPs
- OIX report: <http://bit.ly/1t5IUUY>



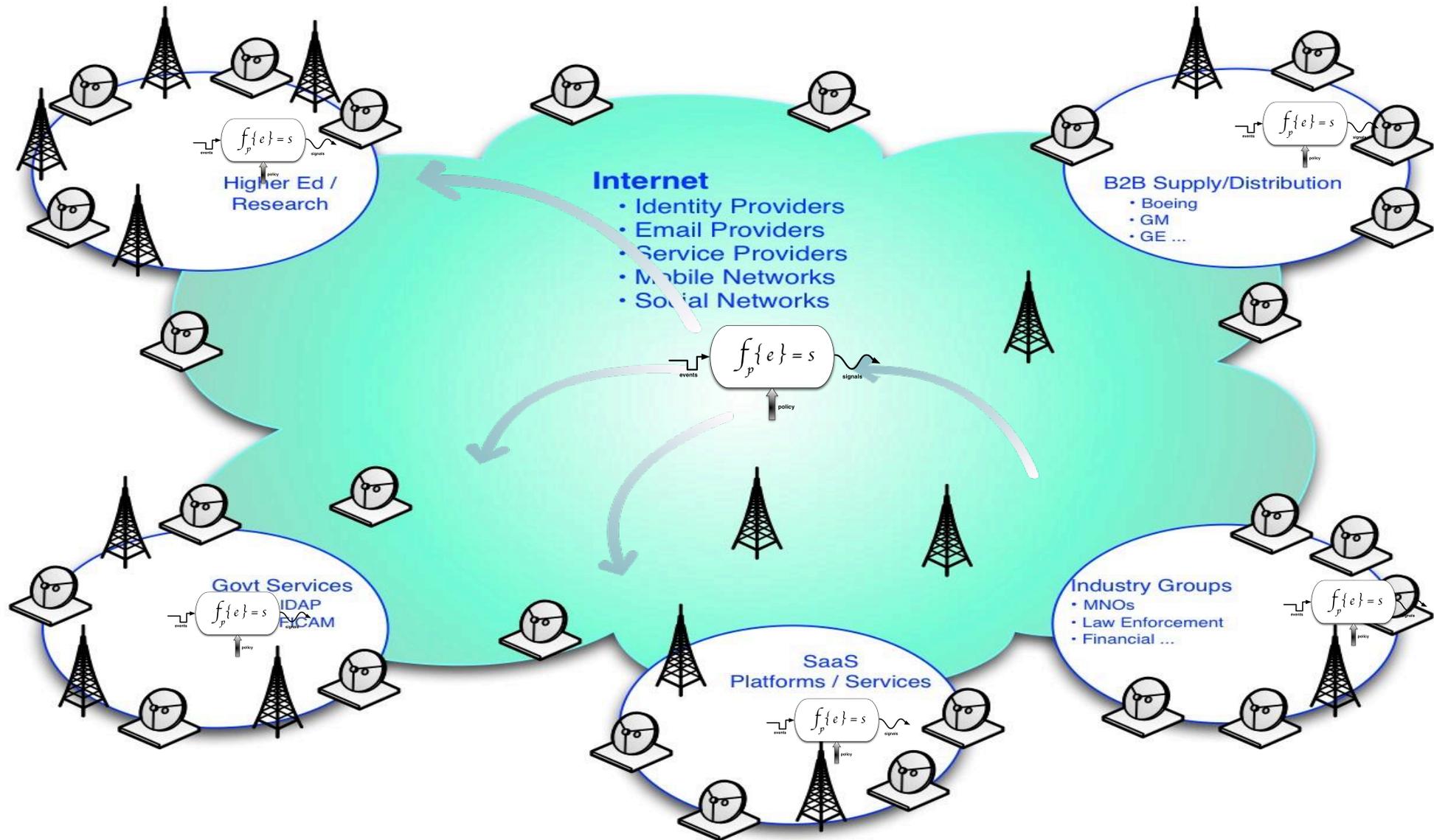
FINDINGS / RECOMMENDATIONS

- Sharing signals successfully addresses threats difficult to address otherwise
- Encrypt rather than hash payloads
- Registration velocity has other variations
- Ghost identity class of threats have other potential triggers

WHERE TO NEXT...

- Strong interest in a follow on project
- Observers have indicated desire to move to active participant status
- At least one use case has already been proposed

EU Cooperation – Identity Signals



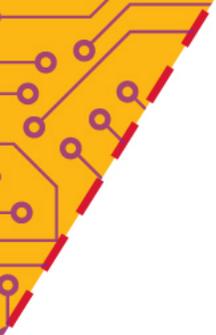
OIDF RISC WG

Sharing online identity signals

The Google logo, featuring the word "Google" in its characteristic multi-colored font.The Twitter logo, consisting of the word "twitter" in a blue sans-serif font followed by a blue bird icon.The LinkedIn logo, featuring the word "Linked" in black and "in" in white inside a blue square.The Ping Identity logo, with the word "Ping" in white on a red square background and "Identity" in smaller white text below it.The Facebook logo, with the word "facebook" in white lowercase letters on a dark blue rectangular background.The eOnfyr logo, featuring a stylized blue "e" icon followed by the word "onfyr" in a blue sans-serif font.The Aol. logo, with the word "Aol." in a large, bold, black sans-serif font.The Windows Live logo, featuring the Windows logo icon (four colored panes) followed by the text "Windows Live" in black.The NRI logo, with the letters "NRI" in a blue sans-serif font.







phil@shield.com uses the same password at all of his sites
60% of the population does too

LOOSE / ASYMMETRIC FEDERATIONS

