



Assurance in Action!

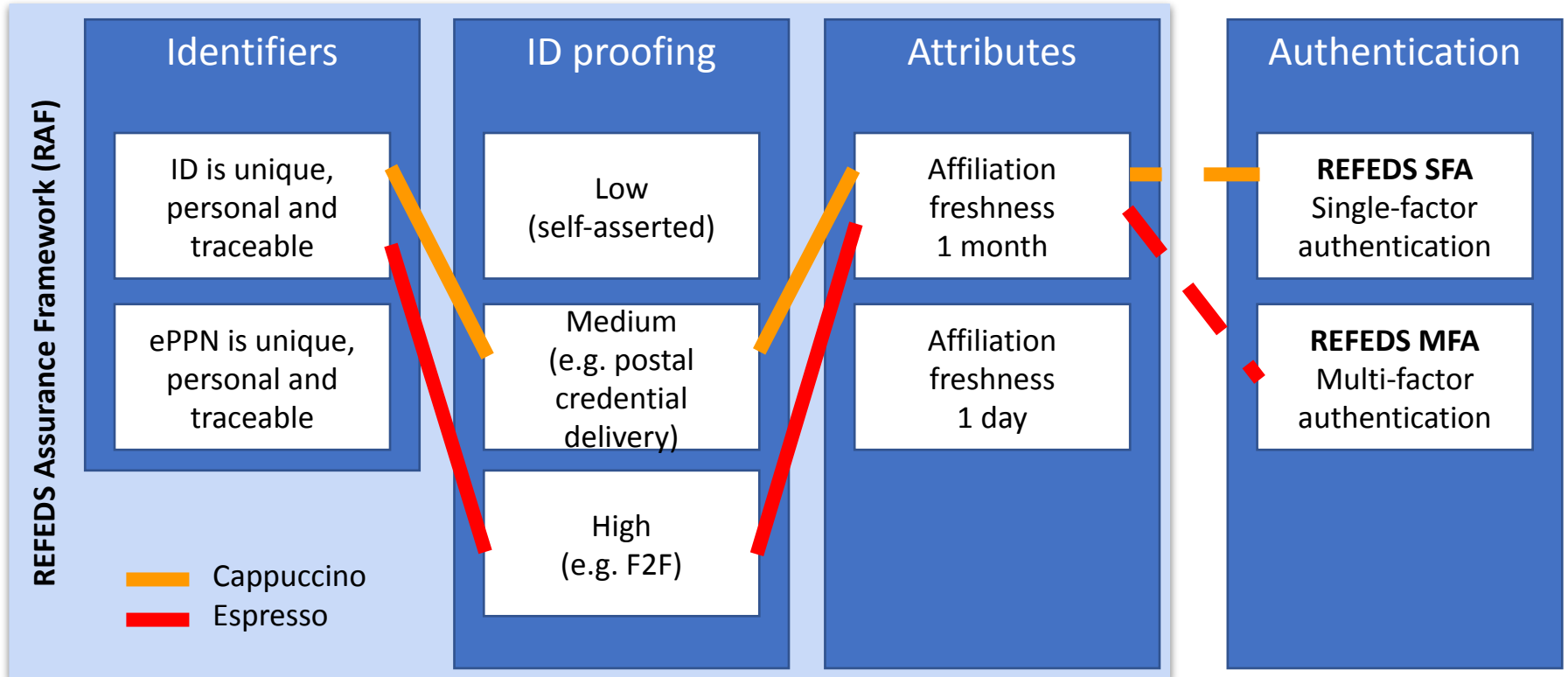
The Evolution of the REFEDS Assurance Framework

Internet2 Technology Exchange 2022, 7 December 2022
Jule Ziegler, LRZ/DFN, REFEDS Assurance WG Chair

REFEDS Assurance Framework (RAF)

- REFEDS Assurance Framework: <https://refeds.org/assurance>
- V1.0 Published (current)
- Defines a set of assurance tags for the eduPersonAssurance attribute in three different areas
 - Uniqueness of identifiers
 - Identity proofing
 - Affiliation attribute freshness
- Defines two combined assurance profiles
 - Cappuccino for moderate assurance
 - Espresso for high assurance

The big picture of assurance in REFEDS



RAF 2.0 Draft

- **Why?** Make REFEDS RAF easier to understand and use, both by IdPs and SPs. Remove any ambiguity, bring text to document
- **Who?** [REFEDS Assurance WG](#), open forum, participation welcome
- **What next?** public consultation! (Probably after MFA profile consultation phase)

MFA Profile Consultation

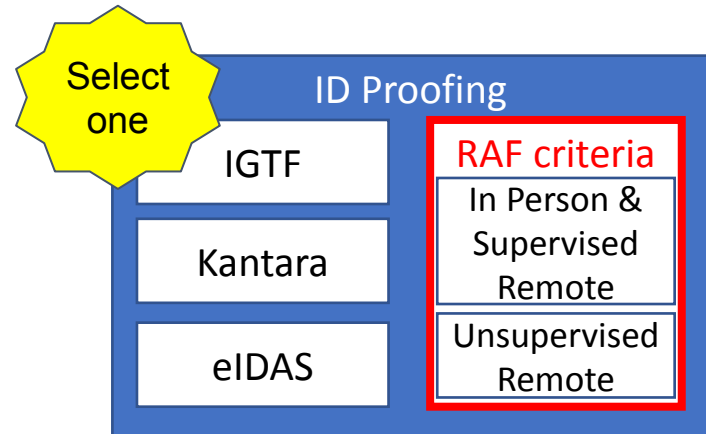
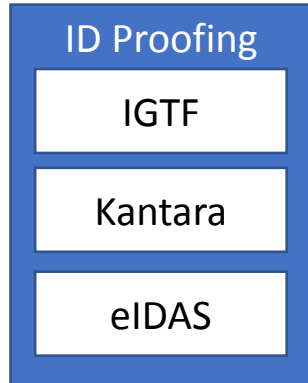
- Driven by requirements from the National Institute of Health (NIH) in 2021, which called for action
- Main Outputs of [REFEDS MFA Subgroup](#) (child of REFEDS Assurance WG) so far:
 - [MFA Profile FAQ](#) (informative)
 - [MFA v1.1](#) (normative)
 - [Editors' note for REFEDS MFA Profile v1.1](#)
 - [Public consultation](#) until mid January 2023 - **please provide feedback!**

RAF 2.0 Draft - highlights

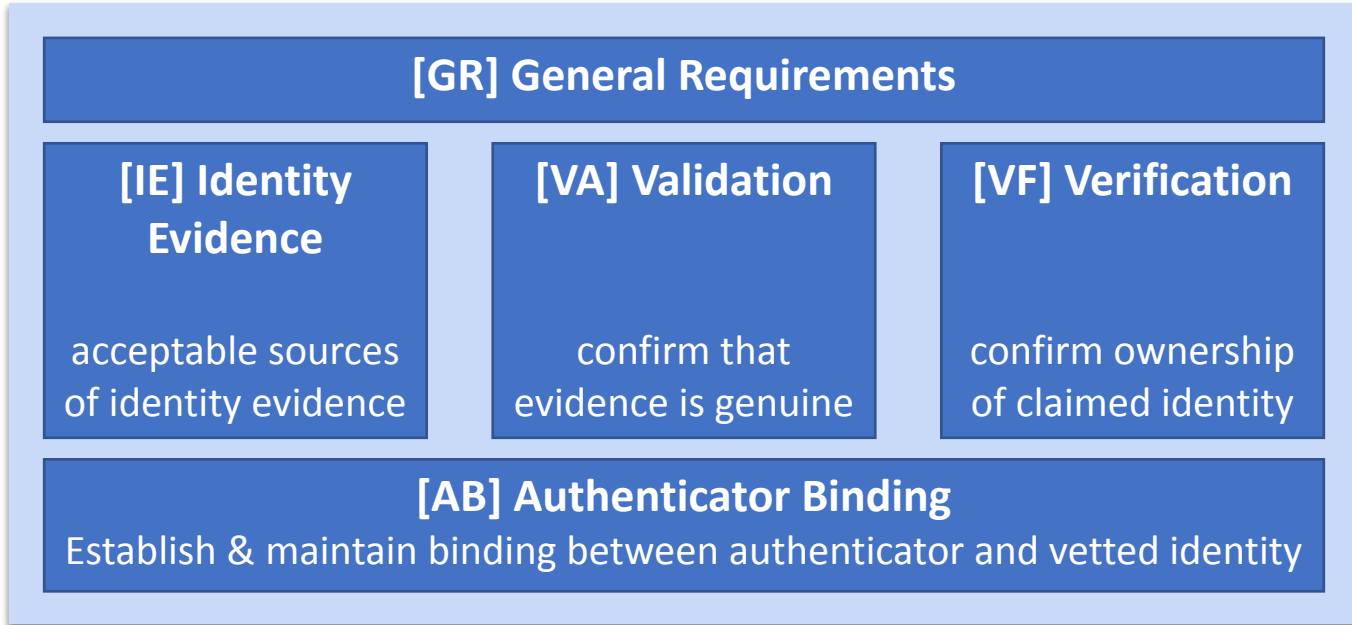
- 3 main areas (Identifiers, ID Proofing, Attribute Freshness) will be retained
- Updates on Identifier Uniqueness, such as usage of multiple identifiers
- **Major Update on ID Proofing section**
- make 'local-enterprise' more prominent in the spec
- text formatting including restructuring, glossary update, highlighting normative vs. informative text

ID Proofing Updates

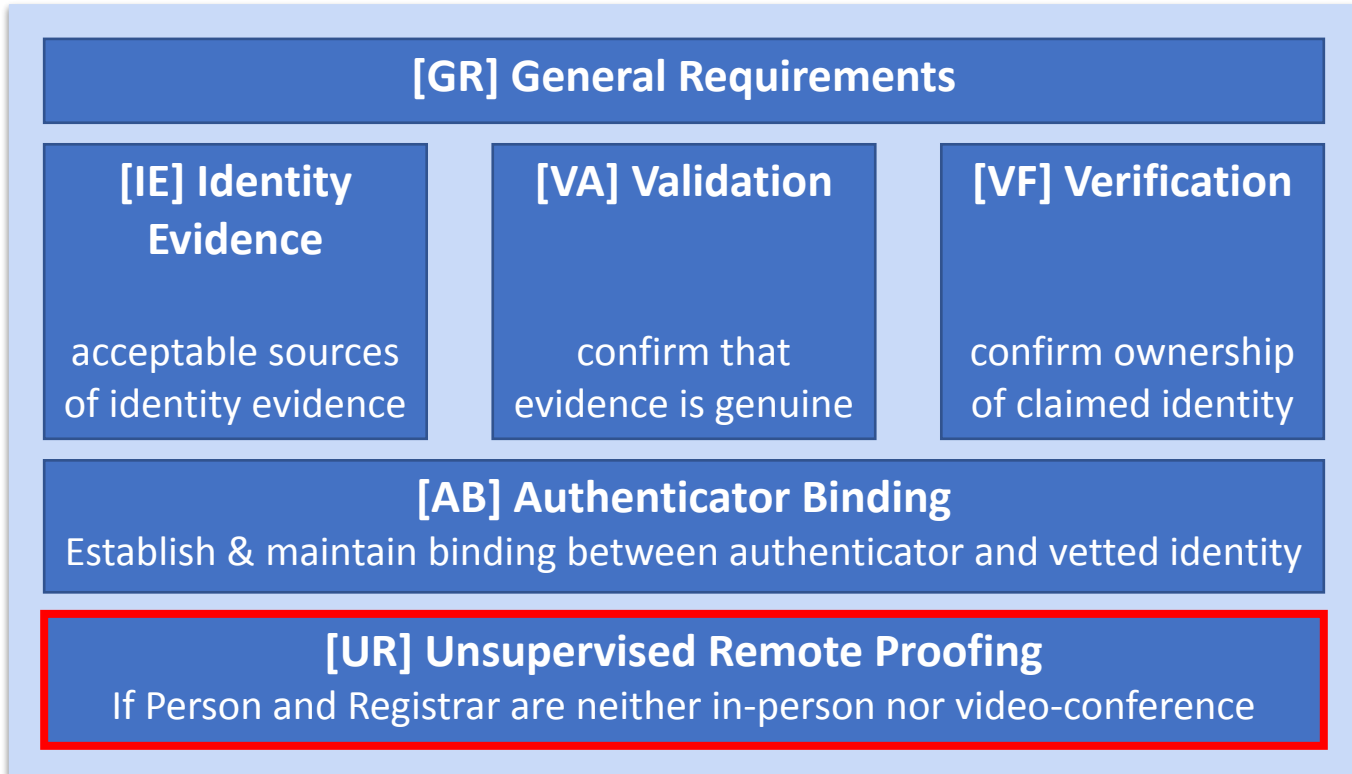
- ID Proofing part currently refers the reader to external standards
- RAF will now include its **own criteria** for each IAP level
- **new use case** (unsupervised remote) included



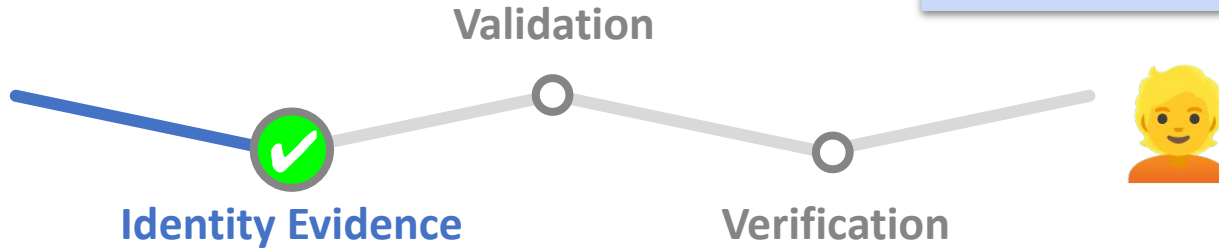
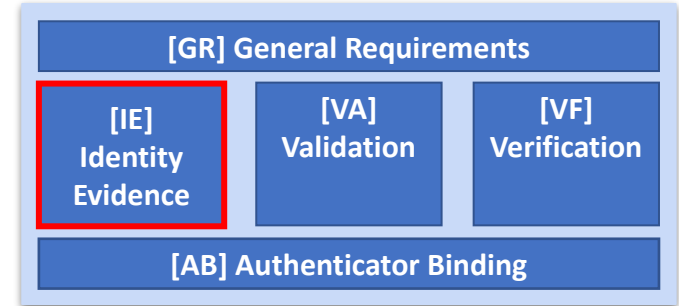
In Person & Supervised Remote Proofing



Unsupervised Remote Proofing (optional)



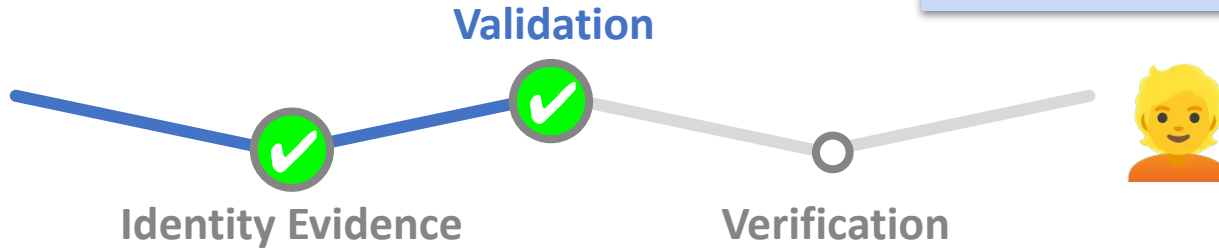
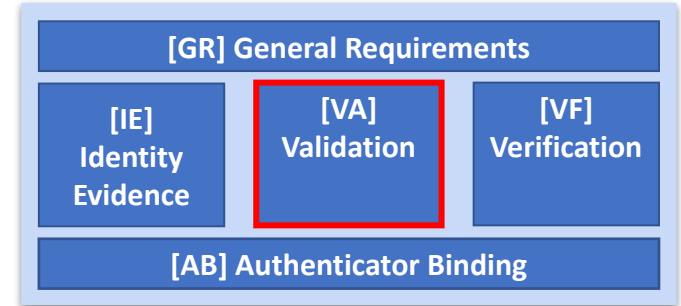
Identity Evidence, Validation & Verification



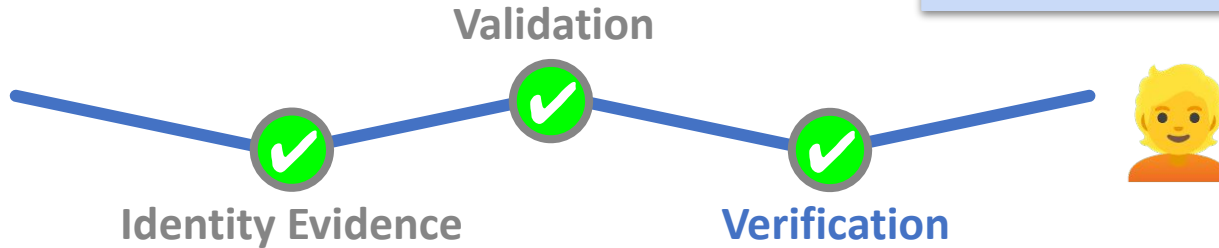
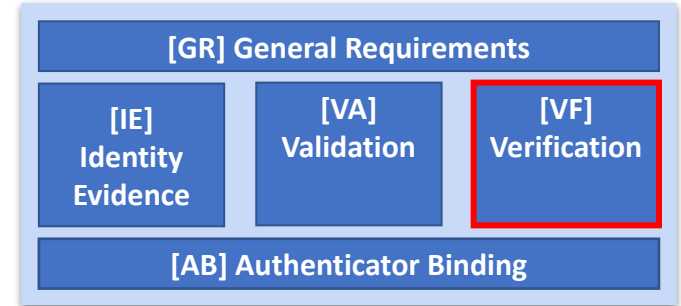
low: no evidence
medium: valid & recognised
high: valid, recognised & security features

Identity Evidence, Validation & Verification

low: no evidence documents
medium: seems genuine
high: checked to be genuine & against trusted source



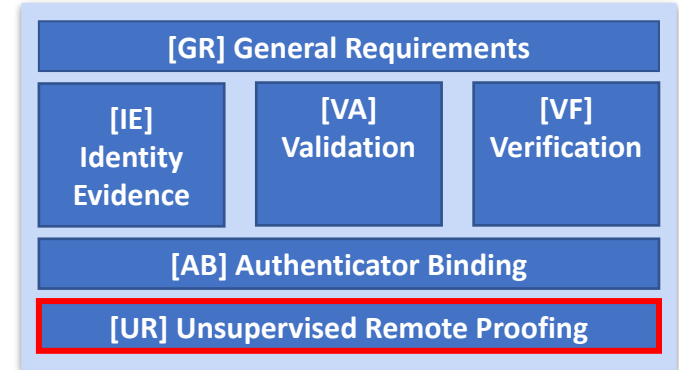
Identity Evidence, Validation & Verification



low: Claimant is a Person
medium/ Claimant is a Person &
high: identity evidence reasonably
belongs to Claimant

Unsupervised Remote Proofing

- e.g. fully automated proofing process
- Additional measures to accomplish IAP medium and high



BUT, only implement [UR] if you have such process in place!

→ I.e., [UR] is not required to claim one of the IAP levels

Good to know

- all requirements are reflected in a formal text & supporting table
- cross references between blocks possible, e.g:

“[UR2]: [VA3] is required.” (text of suggested RAF change)

- IF-Statements included, e.g.:

*“**If** the CSP permits the Claimant to register a previously issued authenticator, then the Claimant must demonstrate control of that authenticator to the CSP during the identity proofing process.”*

(text of suggested RAF change)

Conclusion

- Work in Progress - but almost done!
- If you would like to contribute, visit:
 - REFEDS Assurance WG:
<https://wiki.refeds.org/display/GROUPS/Assurance+Working+Group>

Questions?