

Challenge F

- **Challenge title:** The networked postal identity – secure AI-driven digital identities
 - **Problem statement:** Current digital identity solutions are often fragmented or rely on centralized systems and providers, posing privacy risks and limited user control. The lack of a globally fully adopted, trusted, inclusive, user-centric digital identity system rooted in a standardized Legal Entity Identifier and verifiable address data hinders seamless online interactions, cross-border e-commerce, government service access, and financial inclusion.
 - **Challenge goal:** Participants are tasked with designing a prototype for a digital identity framework that leverages the following:
 - UPU standardized addresses: Use the UPU's standardized address datasets as a foundational and verifiable anchor of user identity, ensuring global recognition and verifiability.
 - DNS services: Securely store and resolve identity proofs using DNS TXT records or decentralized identifiers (DIDs).
 - Open datasets: Leverage compatible, reliable and available open datasets (e.g. government registries, geospatial data) to enhance verification and identity attributes.
 - IP addresses: Explore the correlation between IP addresses and physical locations to strengthen identity verification mechanisms.
 - .POST top level domain: Integrate the use of .POST domains for user-friendly identifiers, branded communication channels and trust enhancement.
 - User-centric design: Ensure that the solution prioritizes user privacy, user control over their data, and ease of use.
 - **Special considerations:** AI tools can improve matching accuracy; infer potential missing data points from UPU and open datasets to enrich identity profiles, enhancing anomaly detection; and design an adaptive authentication mechanism.
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