

Digital Identity Wallets for On-Site Inspections



Global Trust Foundation

"Solving Complex Issues - Simply"

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Why site inspections important?

- Site inspections monitor whether legal, regulatory and contractual obligations have been met
- Demonstration of compliance:
 - Health & Safety
 - Environmental protection
 - Planning permissions

Why site inspections important?

- For example; a small company is constructing a new waste-water channel to reduce flooding. The plans for construction require careful consideration of wildlife and fauna and planning authority approvals and in particular demonstration of that consideration. Subject to frequent modification and therefore updates to certification, plans and licenses as well as up-to-date training qualifications for workers are held on the site manager's Digital Identity Wallet, ready to be presented to inspectors either onsite or on-line.
- Inspectors can also provide digital signed documents to confirm compliance or the issuance of Non-Compliance Reports (NCRs).

Requirements for a site inspector– (Natural Legal Person) - 1



Requirements for a site inspector– (Natural Legal Person) - 2

- Identification and authenticity of the company:
- Ensuring that company is verified and background details (such as ownership, status, registrations, licenses) are consistent. These are typically provided by Legal Entity Identifiers (LEI) and other sectorial certification bodies
- Ensuring that the holder is who they say they are and they have permission to carry out the role being performed

What is the benefit of Digital Wallets for Inspections?

Most inspections require the signature of the natural person as an individual and as a representative of the inspecting company to sign the inspection report, pass certificates or any non-compliance reports.

- These reports are often advisory only and due to connectivity issues in remote locations, may be paper-based and digitised afterwards.
- This results in an ad hoc process that is rarely effective or efficient, with inspection histories rarely followed up.
- With a wallet-to-wallet interaction, using robust connectivity such as QR code exchange, continuous and accurate reporting is facilitated and able to be actioned as soon as communication is available.
- Thus, fast remediation or official approval can be recorded centrally and appropriate action taken, changing an often-disjointed process into a dynamic interactivity

Digital Identity Wallets Verifiable Credentials

- Digital Identity Wallets can hold verifiable credentials from many sources
- Each verifiable credential is digitally signed by the issuer to ensure validity and restrict lifecycle
- They can be used and forwarded as required, and also partially forwarded to prevent showing private information



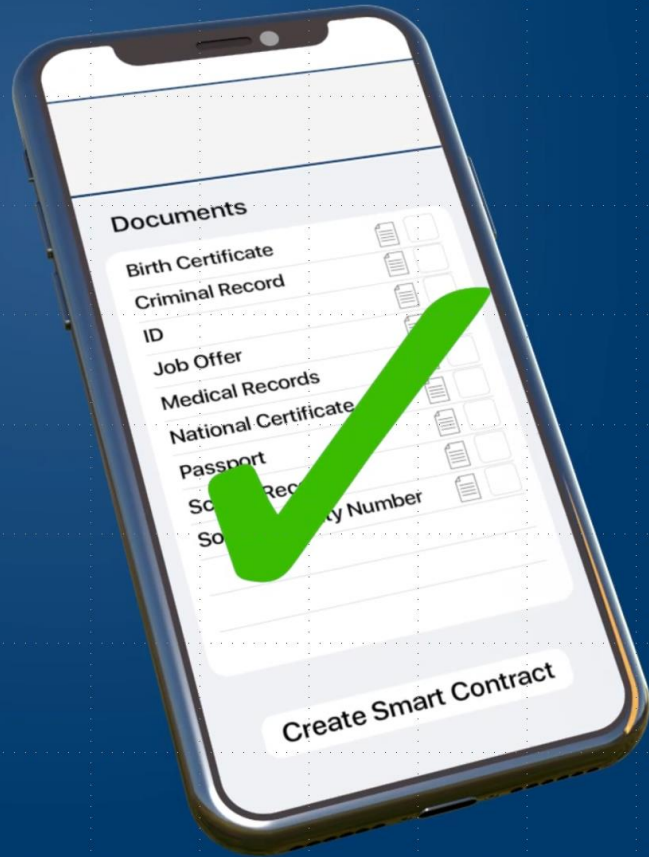
Issues to Consider - 1

- Resilience of records
 - Data curation: Copies of all critical data must be maintained for legal purposes and compliance
 - Links to store large volumes of data, say for plans or multiple detailed images could be used when it is impractical to be kept in the wallet
- Semantic and ontology issues
 - A standardised language will be needed. (This may already be available in a domain, especially in multiple jurisdictions or across multiple agencies). This is a must to avoid misinterpretations

Issues to Consider - 3

| Risk / Issue | |
|---|--|
| Governance | A recognised set of rules need to be agreed globally regarding liabilities and local compliance, as well as recognised practitioner qualifications etc |
| Semantics | Agreed semantics to avoid misunderstandings |
| Language | Agreed libraries to ensure translations are consistent . |
| Recognition - | Quality standards should be universalised. ie LOA3 (high) for identity and signatures |
| Intention – Clarity of understanding | Clearly explained to the counterparties |
| Technical interoperability acting as a bridge between wallet services | Interchange of credentials between wallets should be considered essential |
| Consideration of Non–Natural Person Wallets | For use by organisations to countersign results, A.I.s and test equipment |

Digital Identity Wallets are the Legal Alternative to Paper



Summary

The use of Digital Identity Wallets in business will drive the transformation of fast transactions between multiple parties to create a holistic and consistent approach to increasingly more complex and mission-critical b-2-b transactions



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