

3.0 Theoretical Simplified System with DIDO

[Return to User Scenario: Identity](#)

Figure 1 represents a theoretical PII Secure Smart Contract (PISSC). At its core, the PII Smart Contract acts as a repository of other identifiers and PII. The PISSC by design is usable locally as just a wallet for PII and Identifiers or it can be placed onto a DIDO (i.e., Blockchain, Distributed Ledger Technology (DLT), DAG, etc). When it is being used locally, all the interactions with the PISSC are simply transforms, when it is placed onto the DIDO or updated on the DIDO, the interactions are Transactions. Regardless local or DIDO usage, the PISSC provides a unique hash that identifies the current state of the PISSC.

1. A local copy of the PISSC is downloaded onto a local computing device
2. Personal Identifiable Information and information is added to the PISSC locally. Each update made to the PISSC is local and considered a transform. Examples of information stored in the PISSC are:
 1. Passport numbers
 2. Passports images
 3. Fingerprint images
 4. Credit Card and Debit Card details
 5. Credit Card and Debit Card images
 6. Important Details from documents such as (visas, work permits, marriage certificates, birth certificates, etc.)
 7. Important Document images
3. An identifier for the PISSC in its current state is available as hexadecimal text, bar code, or QR Code. **Note:** every time new information is added to the PISSC, the identifier changes.
4. Using biometrics comparisons between the external users and the PISSC stored data
5. Asking pre-canned questions to the PISSC using bar codes or QR Codes (i.e., Is the person over 18? Is the person a Citizen? Does the person have a work permit?, What is the person's Credit Card Number?)
6. Using free form text and voice to ask questions to the PISSC
7. The questions are analyzed according to an ontology to reformulate the questions that can be analyzed by a rules engine
8. Providing a response. Either
 1. Trinary responses Yes/No/Unknown, True/False/Unknow
 2. Short answers such as unknown, passport number, credit card number, etc
9. Providing rules governing the PISSC usage. For example:
 1. Only during this time period
 2. Expires after this date
 3. Only while in this geographic vicinity
 4. Only using this IP address
 5. Only in this geographic vicinity at this particular time
 6. Only after this event

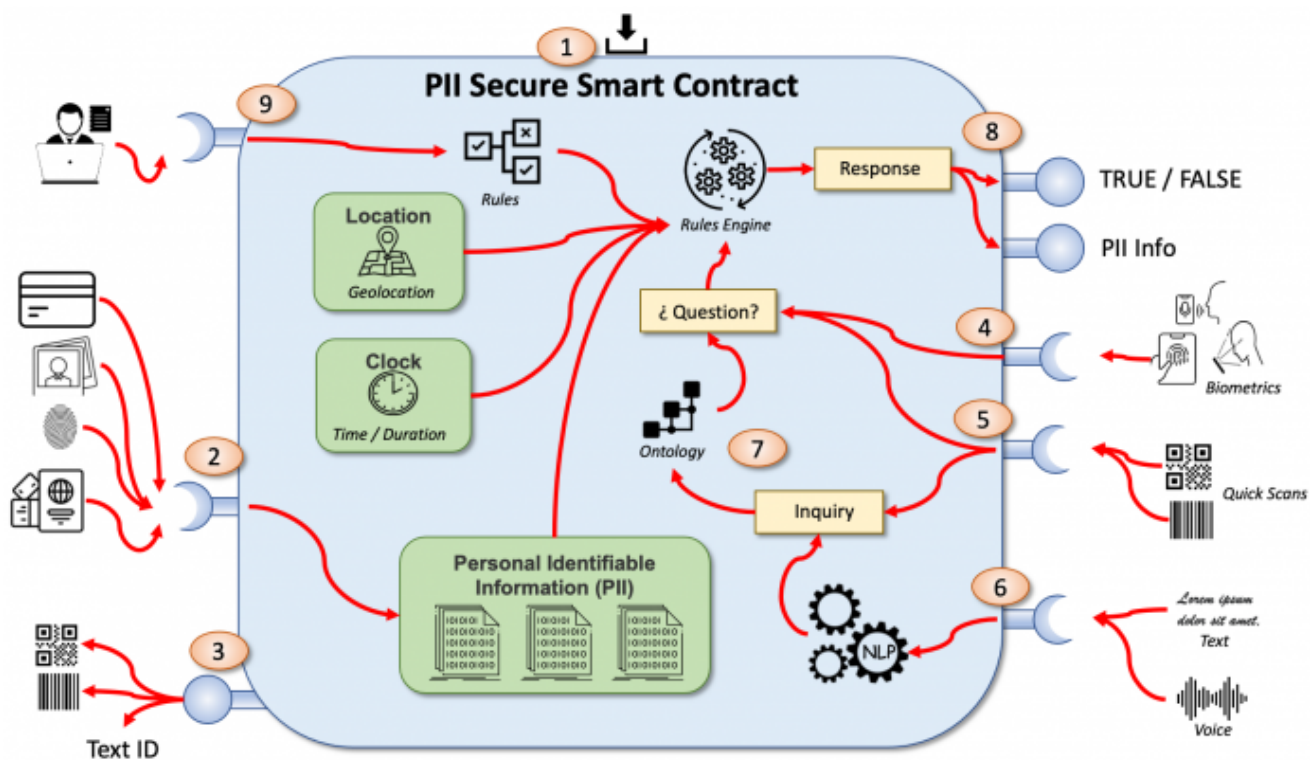
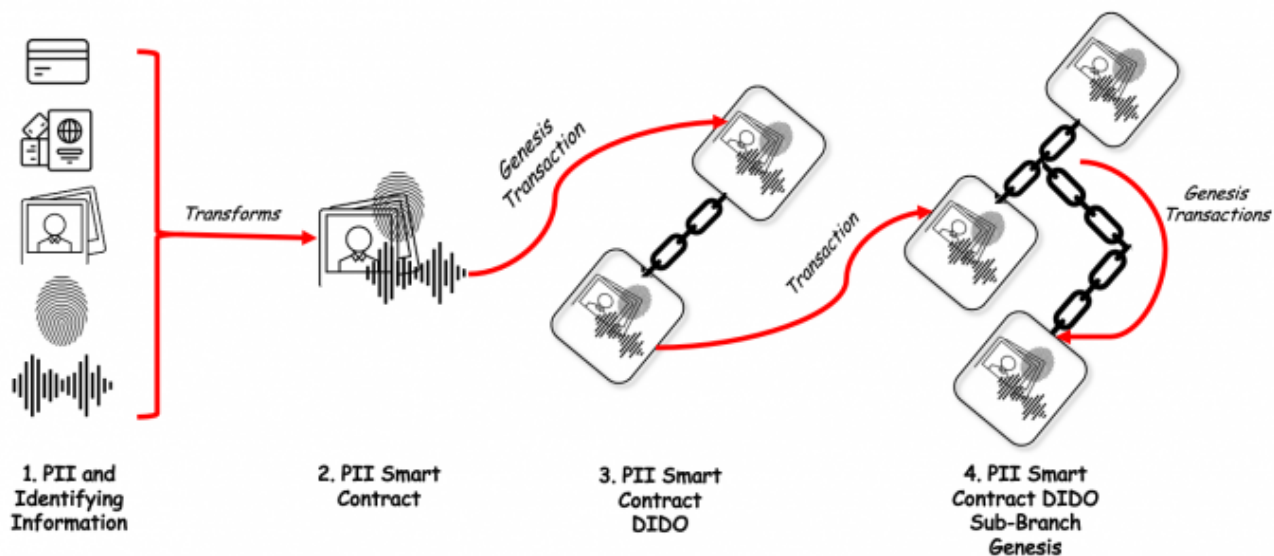


Figure 1: A theoretical PII Secure Smart Contract



- 3.1 Activities
- 3.2 Issues

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