



| | |
|--|---|
| Identifiability of (E,DF) | Anonymity/pseudonymity of (E,DF) |
| Identifiability of (E,DS) | Anonymity/pseudonymity of (E,DS) |
| Identifiability of (E,P) | Anonymity/pseudonymity of (E,P) |
| Non-repudiation of (E,DF) | Plausibledeniability of (E,DF) |
| Non-repudiation of (E,DS) | Plausibledeniability of (E,DS) |
| Non-repudiation of (E,P) | Plausibledeniability of (E,P) |
| Detectability of DF | Undetectability of DF |
| Detectability of DS | Undetectability of DS |
| Detectability of P | Undetectability of P |
| Information Disclosure of DF | Confidentiality of DF |
| Information Disclosure of DS | Confidentiality of DS |
| Information Disclosure of P | Confidentiality of P |
| Content Unawareness of E | Content awareness of E |
| Policy and consent Noncompliance of the system | Policy and consent compliance of the system |

Tabella 25 - obiettivi di privacy basati sulle varie tipologie di minaccia previste in LINDDUN

5.8.6.1.1 Tecniche di mitigazione

Nella metodologia LINDDUN, le proprietà e le corrispettive minacce alla privacy vengono classificate come hard e soft privacy. La tabella a seguire evidenzia tale classificazione:

| Proprietà di privacy | Minaccia alla privacy |
|-----------------------------------|-----------------------------------|
| | Hard privacy |
| Unlinkability | Linkability |
| Anonymity & Pseudonymity | Identifiability |
| Plausible deniability | Non repudiation |
| Undetectability & unobservability | Detectability |
| Confidentiality | Disclosure of information |
| | Soft privacy |
| Content awareness | Content Unawareness |
| Policy and consent compliance | Policy and consent non-compliance |

Tabella 26 - LINDDUN Hard & Soft privacy



LINDDUN fornisce per ogni tipo di potenziale minaccia identificata una o più classificazioni delle tecniche di mitigazione da mettere in campo attraverso una mappatura tra obiettivi e tecniche di miglioramento della privacy (PETs):

| | Tecniche di mitigazione | U | A | P | D | C | W | O |
|--|---|----------|----------|----------|----------|----------|----------|----------|
| Anonymity system | <ul style="list-style-type: none"> Mix-networks (1981) DC-networks (1985) ISDN-mixes Onion Routing (1996) Crowds (1998) Single proxy (90s) (Penet pseudonymous remailer (1993-1996), Anonymizer, SafeWeb) Anonymous Remailer (Ciphernpunk Type 0, Type 1, Mixmaster Type 2 (1994), Mixminion Type 3 (2003)) Low-latency communication (Freedom Network (1999-2001), Java Anon Proxy (JAP) (2000), Tor (2004)) | X | X | | | X | | |
| | <ul style="list-style-type: none"> DC-net & MIX-net + dummy traffic ISDN-mixes | X | X | | X | X | | |
| | <ul style="list-style-type: none"> Broadcast systems + dummy traffic | X | X | | X | | | |
| Privacy preserving authentication | <ul style="list-style-type: none"> Private authentication Anonymous credentials (single show, multi show) | X | X | | | | | |
| | <ul style="list-style-type: none"> Deniable authentication | X | X | X | | | | |
| | <ul style="list-style-type: none"> Off-the-record messaging | X | X | X | | X | | |
| Privacy preserving cryptographic protocols | Multi-party computation (Secure function evaluation) | X | | | | X | | |
| | Anonymous buyer-seller watermarking protocol | X | X | | | X | | |
| Information retrieval | Private information retrieval + dummy traffic | X | X | | X | | | |
| | Oblivious transfer | X | X | | | X | | |
| | Privacy preserving data mining | X | X | | | X | | |
| | <ul style="list-style-type: none"> Searchable encryption Private search | | X | | | X | | |
| Data anonymization | <ul style="list-style-type: none"> K-anonymity model I-Diversity | X | X | | | | | |
| Information hiding | Steganography | X | X | | X | | | |
| | Covert communication | X | X | | X | | | |
| | Spread spectrum | X | X | | X | | | |
| Pseudonymity systems | Privacy enhancing identity management system | X | X | | | | | |
| | User-controlled identity management system | X | X | | | | | |