

Figure 1: Piracy prevention flowchart. No information leaves the User Device.

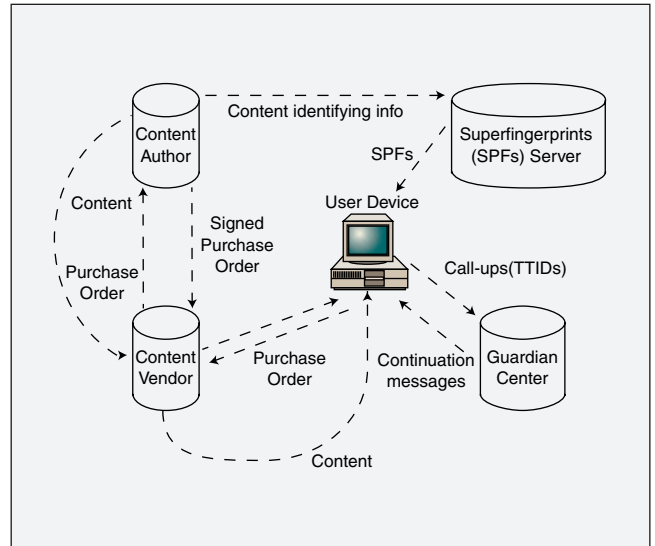


Figure 2: System architecture.

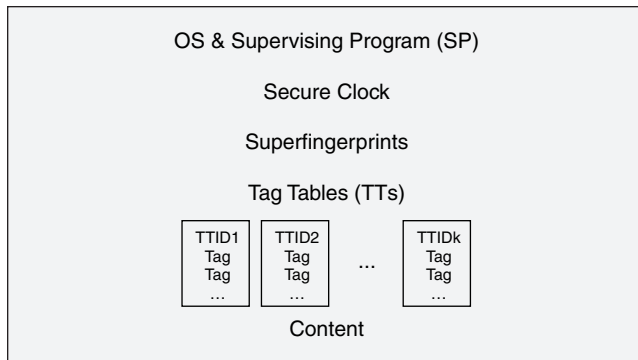


Figure 3: User Device.

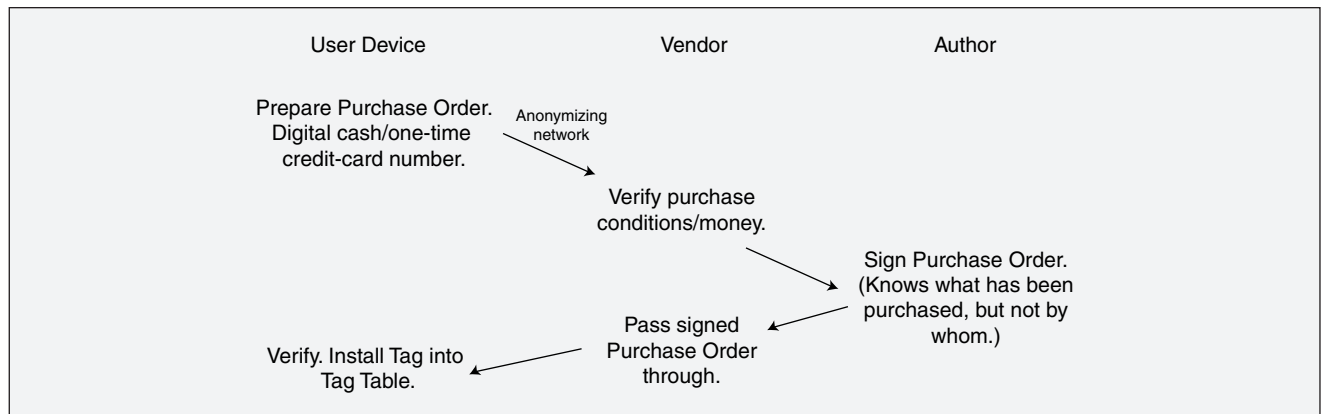


Figure 4: Privacy-preserving purchase. Identity of user hidden by anonymizing network and digital cash. Tag Table Identifier is embedded into Purchase Order using a one-way function.

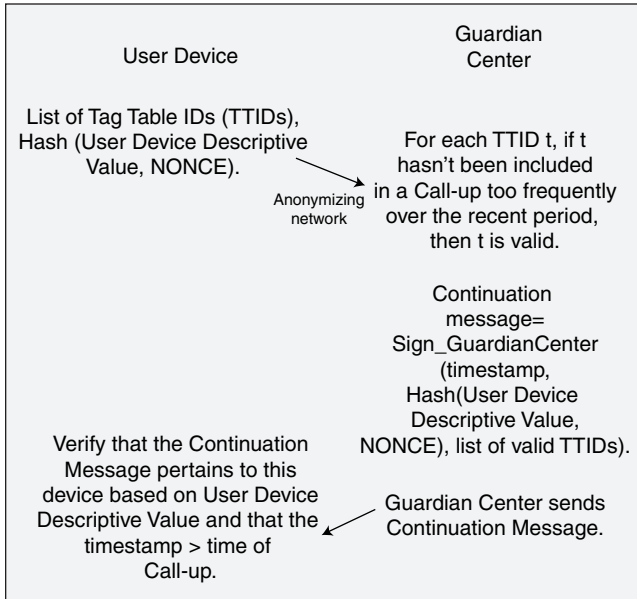


Figure 5: Privacy-preserving Call-ups. User knows that it is talking to the Guardian Center but not vice versa (an option of SSL). TTIDs do not reveal the associated Tags. The one-way hash function associated with the NONCE prevents any revelation of the User Device Descriptive Value, so even processor identifiers can be used without fear of privacy breach.