Comment Template for: NIST SP 800-63-4 Suite (Second Public Draft)

Please submit responses to dig-comments@nist.gov by October 7, 2024.

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	Publication				Comment	
Comment #	(Base, 63A, 63B, 63C)	Section	Page #	Line#	(Include rationale for comment)	Suggested Change
					We propose an additional definition for "Subscriber-Controlled Wallet" inserted after Relying Party	Subscriber-controlled wallet: A digital identity certificate maintained by the subscriber to ensure security and privacy
					(RP). Subscriber-controlled wallet is referenced many times and is key to understanding the federated	protections. The subscriber controls all access to the wallet and can individually allow outside entities access to authenticate
1	63-Base	2.3	1 10	655	digital identity model in Figure 5.	the subscriber's certificate.
,	63-Base	2.3	1 10	640	We propose a revised definition to "Subscriber" that emphasizes it is a role that a "Subject" becomes after they are an "Applicant."	Subscriber: An applicant who has successfully completed the identity proofing and enrollment process or authentication.
	03-Dase	Ζ	1 10	040	arter triey are arr Applicant.	subscriber. An applicant who has successfully completed the identity probling and emblaneet process of authentication. subscriber-controlled digital wallet acts as the IdP. In this model, the RP often establishes a trust agreement with the CSP,
						eliminating the need for a direct trust relationship between the RP and IdP.
						climinating the need for a direct dust relationship between the fit and the
						The following steps describe how an applicant becomes a subscriber in a federated digital identity model:
						Step 1: An applicant applies to an identity proofing and enrollment process with a CSP.
						Step 2: Upon successful identity proofing, the applicant becomes a subscriber.
						Step 3: The subscriber-controlled wallet is onboarded by the CSP.
						- The subscriber authenticates to the CSP's onboarding function.
						- The subscriber activates the subscriber-controlled wallet using an activation factor.
						- The wallet sends a request to the CSP, including proof of a key held by the wallet.
						- The CSP creates an attribute bundle that contains a reference for the key of the wallet and any additional attributes.
						The following steps describe how a subscriber-controlled wallet provides an assertion to the RP to establish an authenticated
						session:
						Step 4: The RP requests that the claimant authenticate. This triggers a request for federated authentication to the wallet.
						Step 5: The subscriber proves possession and control of the subscriber-controlled wallet.
						- The subscriber activates the wallet using an activation factor.
						- The wallet prepares an assertion including the attribute bundle provided by the CSP for the subscriber account.
						Step 6: The RP and the wallet communicate through a federation protocol.
						- The wallet provides an assertion and optionally additional attributes to the RP.
						- The RP verifies the assertion to establish confidence in the identity of a subscriber for an online service. - Note: RPs may use a subscriber's federated identity (pseudonymous or non-pseudonymous), IAL, AAL, FAL, and other
						factors to make authorization decisions.
						Step 7: An authenticated session is established between the subscriber and the RP.
						- Note: Other protocols and specifications often refer to attribute bundles as credentials. These guidelines use the term
3	63-Base	2.5	5 19-21	888-920	We propose modifications to the steps outlined in a federated digital identity model.	credentials for a different concept. To avoid a conflict, the term attribute bundle is used within these guidelines. Normative
					We suggest splitting this diagram into two separate diagrams. One for the 'Subscriber becoming an	
					Applicant' (1), and one for the 'Relying Party Application Process' (2). Additionally, since the digital	
					wallet/attribute bundle is controlled by the subscriber, the wallet should be within the Subscriber Box.	Subject Roles
4	63-Base	Fig. 5	20		See example of Diagram 1.	Subject Roles
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-			+	1		Annibont — —
			1	1		Applicant 1. Applicant applies to
			†	†		CSP CSP
			1			
						Subscriber 2. Upon successful identity proofing, the applicant becomes
						a subscriber CSP
						Subscriber-
-			1	<u> </u>		Claimant Controlled 3. The subscriber-controlled
-			+	 		wallet is onboarded by the CSP
-			+	-		and given the proper "attribute bundle" (credentials)
			1	 		(wassings)
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