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

Please submit responses to dig-comments@nist.gov by March 24, 2023

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Commer	Publication t # (Base, 63A, 63B, 63C)	Section	Page #	Line#	Comment (Include rationale for comment)	Suggested Change
				General	necessarily perform both functions within the same product. Continuing to use the term "CSP" to include identity vetting could be confusing to new identity vetting product vendors and/or CSP vendors. Similarly, non-PKI credentials tend to be	provider); explain how assertions from the identity vetting vendor can be passed to the credential service manager (CSM) to bind an identity to a new credential, and discuss how the IdP comes into play for authentication, but it can also be a
					These four introductory paragraphs seem unnecessary and to some extent are confusing. The first paragraph isn't about digital identity, there is a reference to natural vs. legal persons that was not introduced previously nor is it expanded upon which could be confusing for some readers. There is a statement that establishing digital identity is intended to demonstrate trust, however the one does not necessarily lead to the other. In all, these 4 paragraphs don't add value to	
	1 63-Base	2	3	351-381	a document that is setting guidelines for the issuance and use of digital credentials	Delete these four paragraphs from the Introduction and begin the Introduction with Line 382.
	2 63-Base	2	. 3	38	The sentence: "The model is supported by a series of processes: identity proofing, authentication, and federation." Binding the digital identity to the physical identity is missing here. The series of processes should be identity proofing and binding (or issuance), authentication, federation.	Recommend including 'binding' here and modifying the following sentence as follows: The identity proofing process establishes that a subject is a specific physical person and binds that physical identity to a digital identity.
	3 63-Base	2.1	. 4	41	Opening clause is unnecessary here. Does not add value to the narrative.	Drop "Not all digital services require identity proofing or authentication; however," and begin with "This guidance applies to"
	63-Base	2.1	. 5	437-444	Suggest adding of device level signals to enhance a user's authentication is becoming more prevalent and explicitly required in M 22-09	Suggested signals include: watermarks on the device; certificates/agents on the device; user IP address; a host scan to verify; determination of whether: a) there is an installed, current, and approved Antivirus solution b) current approved system security hot fixes are applied c) Internet Connection Sharing is disabled d) a password protected Screen Saver set to engage after 15 minutes of inactivity is enabled e) a firewall is installed that blocks all other network interfaces when the VPN is engaged
	4 63-Base	2.3.1	7	51	What is meant by "availability issues" and how does it relate to "fraudulent activity"? Throughout the document availability is used in several contexts.	Review this sentence for clarity and understanding. Perhaps reword "availability issues" to make it clear that it is talking about the dearth of identity source information (if that is in fact the correct interpretation).
	5 63-Base	2.3.1	7		What are "equivalent standards". Is there any such thing? Could you give examples of an industry standard NIST considers equivalent to FISMA?	Recommend revising this sentence to assist industry with identifying such equivalence.
	6 63-Base	4.1	. 14		This Step 3 explanation is actually capturing Steps 3, 4, 5, & 6.	End this explanation after the 1st sentence.
					This is confusing. "In all cases, the RP should request the attributes it requires from a CSP or IdP before authenticating the claimant." Isn't it true that the IDP needs to authenticate the subject such that the RP will have confidence about who they will now request additional attribute information about? This seems important in order to bind the subject to the attribute information request. The attributes will be used to make a suitability/authorization decision.	
	7 63-Base	4.1	. 14	68	Authentication should already have happened.  "Subscribers have a duty to maintain control of their authenticators and comply with CSP	Review this sentence for clarity, accuracy and understanding.  Recommend rewording this sentence to something along the lines of "CSPs SHALL(?) ensure subscribers understand their
	8 63-Base	4.2	15	71	policies in order to remain in good standing with the CSP." This appears to put requirements on Subscribers who are notoriously hard to control and are not likely to read this document.  "In order to request issuance of a new authenticator," This is actually referring to 'reissuance' or issuance of a second	responsibilities to maintain control of their authenticators and comply with CSP policies in order to remain in good standing with the CSP."
	9 63-Base	4.2	15	72	authenticator when the subscriber already has a relationship with the CSP.	Recommend revising this sentence for accuracy and clarity. Otherwise confusing.
	10 63-Base	4.3.1	18	78	The word "Some" should be "Multiple". "Some" is vague, whereas "multiple" clearly indicates the intent and is the term being used throughout.	Replace 'some' with 'multiple'. Could also use "minimum of two" here if prefered.
	11 63-Base	4.3.3	19	81	Figure 4 does not have a step by step explanation as is present for other figures. This could lead to misunderstanding.	Recommend some sort of explanation of Figure 4 for clarity
	12 63-Base	4.3.3	20	819-822	Remove 'can' from this sentence. It becomes more assertive as opposed to appearing tentative.	Revise the sentence as follows: Well-designed protocols can protect the integrity and confidentiality of communication between the claimant and the verifier both during and after the authentication, and can help limit the damage that can be done by an attacker masquerading as a legitimate verifier.
	13 63-Base	4.3.3	20	82	Replace the first 'can' from this sentence with 'should'. It becomes more instructive as opposed to conversational.	Revise as follows: "Additionally, mechanisms located at the verifier can should be implemented to mitigate online guessing attacks against lower entropy secrets —"
	14	4.4.1	21		Is this true? While there will be some advantage, RPs will still need to manage identities within their infrastructures, particularly for repeat visitors and to protect PII.	Recommend rephrasing this statement to accurately represent the advantages.
	15 63-Base	5.1.3	28		Header missing	Add the header "Loss of Sensitive Information" here.
	16 63-Base	5.2.3.2	35	133	Editorial recommendation	Remove the word "as" from this line as follows: "which will be as assessed against additional potential impacts as described"
	17 63-Base	5.3.2	37		Editorial recommendation for clarity.	Remove "select to" from this sentence as follows: "they MAY select to implement a compensating control."
	18 63A	1	. 2	360-361	Last sentence is confusing since use of a call center for identity proofing is one of the solutions offered.	Revise, clarify intent of this sentence.  Remove 'some' as follows: "Examples of this include accessing some government services or executing financial
	19 63A	2	3	36	The word 'some' is unnecessary in this sentence Mitigate is defined as "make less severe, serious or painful". Is that what we're trying to do here? Or are we trying to	transactions."  Recommend use of a different action word here. "inhibit" may be a good choice as follows: Fraud Prevention: mitigate
	20 63A	2.1	. 4	40	prevent fraudulent access altogether?	inhibit attempts to gain fraudulent access to benefits, services, data, or assets.
	21 63A	2.2	4	40	Do the IALs 'describe' identity assurance or do they 'define' the assurance we can place in an identity assertion	Recommend replacing "describe" with "define" here as follows: Assurance in a subscriber's identity is described defined using one of the following Identity Assurance Levels (IAL).
	63A	4	6	45	IAM products have advanced since the last iteration, and CSP can now also be an IdP or RP. Recommend making a clear distinction between the products to make the document less confusing to those readers who are new to IAM.	Recommend including clear delineations between a CSP, IdP, and RP in the definitions so vendors and practitioners can better translate the guidelines into IAM products.
L	22 63A	4.1.1	. 8	48	"The CSP asks the applicant to take a photo of themself, with liveness checks." and then what? What is a "liveness check" in this context? This is the only instance of the use of this phrase in the entire document. Elsewhere the term used is "liveness detection".	Recommend revising this statement to indicate the photo is sent to the CSP. If the expectation is that the photo is taken with the device's camera, should say so.  Replace "liveness checks" with "liveness detection".
	23 63A	4.1.1	8	48	Editorial recommendation. It is not a foregone conclusion that they match.	Revise sentence as follows: The CSP compares the pictures on the license and the passport to the photo of the live applicant's photo from the previous step and determines whether they match.

							Domesto the word their as fallows " working thou the applicant is in passession and control of the validated phone
24	63A	411		9	4	5 Editorial recommendation.	Remove the word 'they' as follows: "verifying they the applicant is in possession and control of the validated phone number."
	0571					Should this be #6 or should it be a closing paragraph. The intro to the list states "Acceptable digital evidence SHALL	The state of the s
						contain all of the following characteristics". #6 states "if applicable" and refers to verification of the evidence not the	
25	63A	4.3.2		10	5	0 characteristics or presentation of the evidence.	Recommend removing #6 from the list and making it a closing paragraph to the section.
						The term "reasonably assumed" seems very subjective. In M-04-04, the term "balance of probabilities" was used, which	
26	63A	4.3.3.1		11	5	3 suggests some calculation or statistical reasoning has been employed.	Recommend revising this bullet to replace "reasonably assumed" with a more measurable term.
20	037	4.5.5.1	<del></del>	- 11	,	Allows evidence to have expired within the past 6 months which contradicts the statement in Section 4.3 (line 498) that	recommend revising this bunce to replace reasonably assumed with a more measurable term.
27	63A	4.3.3.1		11	5	77 evidence is unexpired.	Recommend revision here or in Section 4.3 to remove this contradicts.
						What does "visually identified the applicant" mean? Does this statement indicate that the id proofing encounter was in-	
						person (or supervised remote)? Why not say so? Thinking about a passport, this would eliminate passports from	December of the second section of the second section of the second section of the
20	63A	4.3.3.3		12	-	Superior classification unless comparing new picture submitted for passport replacement with existing picture is 'visual 16 identification.'	Recommend revision here to indicate that Superior Evidence requires in-person id proofing or describe what "visually identified" means?
20	03A	4.3.3.3		12		of identification.	identified means:
						How does one "confirm" evidence is not counterfeit or tampered with? Is there a section in this document that goes into	Recommend either adding some information here on confirming evidence is not counterfeit/tampered with or giving
29	63A	4.3.4.1		12	6	6 detail on this? Should there be? Is visual inspection sufficient? And how is that accomplished adequately remotely?	reference to where that is discussed in the document.
						"Maintains identity attribute information obtained from multiple sources that is	
20	63A	4.3.4.4		14	6	checked for data correlation for accuracy, consistency, and currency." This sentence does not read well. Seems awkward. 3 Should there be a 'for' in front of 'accuracy'?	Recommend review, revise sentence for clarity.
30	OSA	4.3.4.4	<del></del>	14		5 Should there be a for in Horit or accuracy ?	If Supervised Remote is included in the In-Person definition, make a statement to that effect in this definition. Ditto if it
31	63A	4.4.1		14	6	4 Is Supervised Remote included in the definition of "In Person" here?	is part of the Remote definition.
							Suggest defining what a digital account / verifiable credential is. Regardless of whether NIST's definition is more-broad,
							suggest 63A includes a discussion on how IAL is mutable as well as what AAL the credential needs to be to transfer the
						Digital Account / Verifiable Credentials are not clearly defined. No definition in the base document; noted in a few	IAL. For example: If a credential is obtained at IAL1, it can only be used to verify the identity at IAL1 – the credential can
	63A	4.4.1		15	684-688	sentences in 63A. Assumption is that NIST is only describing verifiable credentials as defined in ISO 18013-5; however, NIST might be describing a more-holistic list of digital accounts, to include, e.g., Login.gov credentials.	be AAL1-3. While an AAL3 credential can be used to verify the identity at IAL1-3, only an AAL3 credential would be able to validate IAL3.
	UJA	4.4.1		15	004-b88	MIST might be describing a more-noistic list of digital accounts, to include, e.g., Login.gov credentials.  M-22-09 requires encryption for data at rest and in transit, suggest being more explict and state "encrypted" instead of	to validate IALS.
	63A	5.4.1		20	822-839	"protected" chanel	Explicitly state encryption of data is required.
							The CSP SHALL assess the risks associated with operating its identity service, according to the NIST risk management
32	63A	5.1.4		20	8	9 Editorial recommendation - either remove 'an' or make controls singular.	framework [NIST-RMF], and apply an appropriate baseline security controls.
						"Behavioral characteristics" are included in the definition of "Biometrics" but not expanded upon in the examples. What	
						is a qualifying "behavioral characteristic"? All other sections in this document use "behavioral analytics" as a fraud	
						mitigation measure, not as an identity proofing measure. How does a behavioral characteristic enable a CSP to uniquely	
						resolve an individual identity within a given	Consider revising this text to include a behavioral characteristic example. Or if not germane to the id verification process
33	63A	5.1.8		22	9	9 population or context, verify that an individual is the rightful subject of identity evidence, etc.?	(picture, iris scan, fingerprint) say so here.
34	63A	5.1.9		24	9		Make an assertive statement as to whether CSPs are REQUIRED to provide trusted referees.
						States that " applicant references are not authorized to represent subscribers in transactions with RPs." So does this	
						mean that an applicant reference cannot have custodial authority or power of attorney over the applicant? This seems	
35	63A	5.1.9		24	987-989	limiting in a context where the individual needing the assistance with the identity proofing/enrollment process also needs help conducting transactions	Review this prohibition concerning its validity/usefulness.
33	037	3.1.3	<del>- t</del>	2.4	307 303	Do Trusted Referees constitute an in-person interaction in an otherwise remote identity proofing process? Why not	neview and promotion concerning its variately ascrainess.
36	63A	5.1.9.1		24	994-995	make this statement?	Clarify whether Trusted Referees meet in person with an applicant in an otherwise remote id proofing process.
							If supposition in comment #34 is correct, remove this caveat. Otherwise, make it clear in 5.1.9 that CSP provision of
	63A	5.1.9.1		24		6 Why the caveat "Where Trusted Referees are offered" if CSPs must make them available - see comment #34	trusted referees is optional.
38	63A	5.1.9.2		25	10	0 Why the caveat "If the CSP allows for the use of applicant references" in the 3rd item?	Recommend removing this and aligning the 3rd item with the 2 above.
39	63A	5.1.10		25	10	4 Does this suggest that the provision of id proofing services to minors is optional. Should it say that explicitly here?	Recommend making a clear statement that CSP either MUST or MAY offer id proofing services to minors.
	63A	3.1.10	5.3	26		Why the use of "Notably" here?	Recommend removing "notably" from this sentence
40	0.57.		ر. د	20	10	The evidence requirements at IAL1 are the same as IAL2. This seems excessive. Based on the definition, it appears a	necommend removing notably from this sentence
						driver's license is STRONG not SUPERIOR (cryptographic processes are missing in many cases) and yet we use Drivers	
						Licenses as our base id proof in all contexts. If that is a correct conclusion, it seems that IAL 1 should be satisfied with	Consider revising the Evidence requirements at IAL 1 to allow one piece of strong evidence (i.e. drivers license or
41	63A	5.3.2.1		26	10	6 one piece of STRONG evidence.	equivalent).
42	63A	5.3.4		27	10	At IAL2 there is discussion of id proofing as a remote process and as an in person process. This is missing here, even 8 though Section 5.3.1 indicates in-person proofing is an option.	Consider paralleling the language in Section 5.4.4 as applicable for in-person proofing at IAL1 here in 5.3.4.
42	UJA	J.J.4		21	10	oranoga accaon 3.3.1 mulcates in-person proofing is an option.	"Demonstrated association with a digital account through an AAL1, AAL2, or AAL3 authentication or at a minimum an
	63A	5.3.4		27	1084-108	5 Any AAL would suffice to prove proof of possession of a credential with an IAL1	AAL1 and FAL1 federation protocol, or"
			t			Not sure why this is a SHOULD. It seems that even at IAL1, sending a notification to an address of record is a basic	
	63A	5.3.5		27	10	8 process for preventing fraud.	Recommend reconsidering whehter notification to address of record should be SHOULD or SHALL.
	63A	5.4.3	[	28		1 There is no requirement here to validate FAIR evidence (this existed in IAL1).	Consider adding requirement to validate the FAIR evidence, when presented.
45	63A	5.4.3		28		8 Editorial comment	Recommend including the word "both" here: "The CSP SHALL validate all core attributes by both:
	63A	5.4.4.1		29	1127-11	4 Agree with requirement of biometric comparison for remote identity vetting for IAL2	No changes required
46	63A	5.4.5		29		O Doos the requirement to send notification to an address of a send also such facility and the send notification to an address of	Review this requirement for accuracy
46	DOA	5.4.5		29	11	0 Does the requirement to send notification to an address of record also apply for in-person proofing?	neview uns requirement for accuracy
47	63A	5.5.1		29	1150-11	2 Does automated bot detection and the other mitigation factors listed here apply to in-person id proofing interactions.	Review this section for its applicability to an in person identity proofing process.
			t				Remove final phrase as follows: " establish a unique subscriber account for that subscriber following the successful
48	63A		6.1	34	1241-124	2 Editorial Comment	identity proofing of an applicant.
							"Demonstrated association with a digital account through an AAL3 authentication or an AAL 3 and FAL2 federation
	63A	5.5.4		31	1190-119	1 Only AAL3 would suffice to prove proof of possession of a credential with an IAL3	protocol"
						Any AAL would suffice to prove proof of possession of a credential with an IAL1; Either AAL2 or AAL3 would suffice to prove proof of possession of a credential with an IAL2; Only AAL3 would suffice to prove proof of possession of a	
	63A		5.6	33	Table 1	credential with an IAL3	Recommend updating Verification requirements for IAL1-3 in accordance with the above suggested changes.
							Remove final phrase as follows: " establish a unique subscriber account for that subscriber following the successful
	63A		6.1		1241-12	2 Editorial Comment	identity proofing of an applicant.
49	63A		7	37	Table 2	Editorial comment	Third Row/Last column "credit cards" should be singular.

	1				Not sure why there is a Section 8.1.1, when there is no Section 8.1.2. Seems unnecessary to create this subsection. That	
					said	
					The example given here concerning transmission/storage of SSN appears to be a non-sequitur. In order for validator to	
					give a yes/no answer, the SSN would need to be communicated by the third party, which also means the third party	
50 63A	8.1.1	4	40 13		would know/possibly store it.	Review/consider revising the example given here
51 63A		8.3 4	41	1404	"Consult your SAOP" would apply only to Federal agencies, not all CSPs are Federal agencies	Recommend revising this opening clause to state: "Federal agencies should consult their SAOP"
					· · · · · · · · · · · · · · · · · · ·	
52 63B		2	3	368	"pseudonymous or non-pseudonymous" doesn't seem necessary here.	Recommend removing "pseudonymous or non-pseudonymous" and simply saying "an identifier".
					Isn't it true that IAL 1 only requires single factor, but there is no prohibition on using multifactor? This should be made	Recommend revising this sentence as follows: "AAL1 requires either single factor or multi-factor authentication using a
53 63B		2	3 38	87-389	plain here.	wide range of available authentication technologies. Optionally, multi-factor authentication may also be used."
					Not sure why the term "two different authentication factors" is used here instead of multi-factor. Should it not be "at	
54 63B		2	4		least two different authentication factors"? And on line 402 the term "two distinct authentication factors" is used. Why the difference in terminology?	different authentication factors" And consider settling on a single term "different" or "distinct".
34 036			+		Use of the term "some assurance" is vague. In the following section (4.2), AAL 2 is described as "high confidence", it	Revise this sentence to express AAL1 assurance in terms of confidence as follows: AAL1 provides some assurance a basic
55 63B		4.1	6		seems to me that AAL1 should also be expressed in relation to confidence.	level of confidence that the claimant controls an authenticator bound to the subscriber account.
					•	Recommend revising this sentence as follows: "AAL1 requires either single-factor or multi-factor authentication.
56 63B		4.1	6	443	See comment 53 above. AAL 1 requires a single factor authenticator, may use multifactor	Multifactor authentication may also be implemented using a wide range of available authentication technologies
					"Authenticators procured by federal government agencies SHALL be validated to meet the requirements of [FIPS140]	
57 500					Level 1." A companion statement is needed to indicate that non-Federal organizations should meet an equivalent standard.	Add a sentence here that says: "Authenticators procured by non-federal organizations SHALL be validated to meet the
57 63B	4.2.2	_	9 52	23-524	standard.  This entire paragraph is confusing. Federal agencies must offer phishing resistant authenticators but they're generally	requirements of [FIPS140] Level 1 or an equivalent standard."
					not required, only recommended? And encouraging use of phishing resistant authenticators by whom? Is this a	
					subscriber decision? A relying party decision? Or both? How does a verifier encourage use since verification is after the	
58 63B	4.2.2		9 53		fact?	Revise this paragraph for clarity. Perhaps require phishing-resistance.
						AALO
		1		ļ	While the Department agrees that phishing-resistant MFAs should be rated high within authentication levels, it does not	Memorized secret, phisable OTPs (e.g. single factor OTP device), etc.
					agree that all the proposed phishing-resistant authenticators should be at the same authentication level. Because of a	AAL1
					possible difference where a multi-factor cryptographic device can have brute force protections built into the	Look-Up Secret,
						Multi-factor OTP,
					from the cryptograhic device would leave a system vulenrable to attacks that lock out users.	Single/Multi-factor cryptograhic devices,
						Multi-Factor Out-of-Band Authenticator,
					For example, if a single-factor cryptographic device is found by an attacker, they could then attempt to guess a	Multi-Factor OTP Device,
					memorized secret bound to the IdP (based on known passwords for the user via breaches or dictionary attacks). If the	combination of two single-factor authenticators
					IdP had a policy that disables/locks the account after 10 consecutive tries then attackers would be able to lockout all	AAL2
					accounts resulting in DoS. Hence the IdP would generally use policies to slow down brute force accounts but couldn't	Single-Factor Cryptographic Device used in conjunction with a Memorized Secret
					prevent them; thus, this creates a security difference from the protections a multi-factor cryptographic device would have.	Multi-Factor OTP device (software or hardware) used in conjunction with a Single-Factor Cryptographic Device
					nave.	Multi-Factor OTP device (hardware only) used in conjunction with a Single-Factor Cryptographic Software Single-Factor OTP device (hardware only) used in conjunction with a Multi-Factor Cryptographic Software Authenticator
					AALO proposed to distinguish the weakest forms of authentication that are most attacked from those that are stronger	AAL3
63B	4.3.1	1	10 57		such as FIDO.	Multi-Factor Cryptographic Device
	1.0.0					Review the following sentence: "AAL3 authentication SHALL occur by the use of one of a combination of authenticators
59 63B	4.3.1	1	10	577	Editorial comment	satisfying the requirements in Sec. 4.3". I believe the 'of' here should be 'or'.
						AALO (Single Factor Authenticators)
						• E.g. Look-Up Secret, Out-of-Band Device, Single-Factor OTP Device, Single-Factor Cryptographic Software, Single-Factor
						Cryptographic Device
						AAL1 (Phishable MFA)
						Multi-Factor Out-of-Band Authenticator,
						Multi-Factor OTP Device
		1				Combination of two single-factor authenticators
		1				AAL2 (Phishing-Resistant MFA)
						Single-Factor Cryptographic Device used in conjunction with a Memorized Secret
						Single-Factor Cryptographic Software used in conjunction with a Memorized Secret     Multi-Factor Companyable Software Authoritator
						Multi-Factor Cryptographic Software Authenticator     AAL3 (MFA Cyrptographic Device)
63B		4.5 1	13 T=	able 1	See comment above on AALs.	Multi-Factor Cryptographic Device
60 63B	5.1.3.1	1.5	21		Editorial comment	The word 'the' does not belong here: " rather than by the presenting a secret that the claimant transfers"
61 63B	5.1.5.2		26		Editorial comment	The word 'authenticator' is misspelled
62 63B	5.2.2				100 failed consecutive attempts seems excessive.	Recommend some explanation/rationale for allowing 100 consecutive failed attempts.
					Why allow the use of restricted authenticators at all? Or is this a way of allowing use of previously issued authenticators	
63 63B	5.2.10	3	38 14		until such time as they can be replaced.	Please clarify the intent of allowing use of restricted authenticators and the circumstances.
			T		What does throttling have to do with Binding? Seems throttling is more about use of an authenticator than binding the	
64 63B		6.1 4	41 15	571-1573	authenticator to my subscriber account.	Review/revise/explain this statement as appropriate.
65 63B		6.1 4	42	E02 1504	the statement "and to attempt to determine that the endpoint and authenticator are free from malware" introduces a	December of remains letterant from this statement or consider this first statement
65 63B		b.1 4	42 15	593-1594	great deal of uncertainty "attempt to determine"?	Recommend removing 'attempt' from this statement or removing this final clause.  Recommend revising for clarity/readability as follows: The binding process MAY begin with a request from Once an
						endpoint that has authenticated to the CSP and obtaininged a binding code from the CSP, that is input into the endpoint
66 63B	6.1.2.4	44-4	15 16	696-1698	This is a very long runon sentence that is hard to read.	associated with the new authenticator and sent to that CSP.T the binding process MAY begin.
			T			
					While the surrender of authenticators is laudable. Fraudulent or deceased subscribers won't participate. What does it	
					mean for a subscriber to "certify destruction"? There seems to be a lot of room for error here. CSPs could burn a lot of	
67,630			47/4-		cycles chasing down subscribers to ensure this requirement is met. If these are in the hands of the subscriber and the	Consider reviewing (revising this requirement to ensure its vi-tills. Could blo be - 100000010
67 63B	<del></del>	6.4 4	4/ 17	793-1795	subscriber has been adequately informed concerning PII associated then it seems that should be sufficient.	Consider reviewing/revising this requirement to ensure its viability. Could this be a "SHOULD"?
					"Prior to session expiration, the reauthentication time limit SHALL be extended by prompting the subscriber for the	
		1			authentication factors specified in Table 2." This statement is confusing. What is the 'reauthentication time limit'? Is	
68 63B		7.2 5	50		this following termination? Or can it prevent termination? If so, is it contradictory?	Review/revise for clarity.
			_			

						Not sure why there is a Section 7.2.1, when there is no Section 7.2.2. Seems unnecessary to create this subsection. It	
						can just as easily be included in the superior section 7.2.2. That said The title of this subsection is "Reauthentication	
						from a Federation or Assertion", however it only describes reauthentication in the context of a Federation through the	Consider revising the document to remove subsections that are 'only children'. Also review this header for its
69 6	63B	7.2.1		51	189	8 use of an asssertion. Seems the 'or' in the title is misleading	relationship to the following text and whether it is an accurate representation.
						"This inequity can be addressed by making inexpensive authenticators such as look-up secrets (see Sec. 5.1.2) available	
						for use in the event of a primary authenticator failure or loss". Inexpensive authenticators such as look up secrets could	
70 €	63B		11	75	2477-247	very well lower the AAL. Seems there should be some mention of AAL equivalence here.	Review/revise this statement/example for its effect on the subscriber's ability to conduct the business intended.
71 6	63C		2	2	25	6 The term "single sign on" does not appear in the Definitions and Abbreviations section of the -63 Base document	Recommend adding "single sign on" definition to -63 Base.
/110	030		- 2	3	33	of the term single sign on does not appear in the Demittions and Abbreviations Section of the -os base document	Recommend adding "Single Sign on" demittion to -65 base.
						"This can be traced back to a static agreement between the parties or occur implicitly from the connection itself." This is	Check word usage. Should 'occur' be "inferred"? If 'implicitly' is replaced with 'dynamically', the word 'occur' works
72 6	63C		4	6	441-442	confusing. If this is describing a 'dyamic' agreement, why not use that term?	here.
						"In existing federation protocols " Not sure the intent of this. Does it mean the federation protocols that exist today?	
						Is it necessary? In this dynamic world, a new protocol could pop up by the time this document is signed, or immediately	
73 6	63C		4.1	8	48	5 thereafter. Could it just be "For example "	Recommend the opening of this paragraph is revised to remove the phrase "In existing federation protocols"
						The word "also" is unnecessary here. The statement has already been made that these are additional requirements.	
						Nor do following paragraphs contain 'also'. Could this section benefit by placing bullets at the beginning of each new	Remove "also" from line 493. Replace "being injected" with "injection" (readability). Consider placing bullets at the
						requirement? Seems the first two paragraphs are related, while the third & fourth paragraphs are distinct requirements.	
74 6	63C		4.2 8-	-9	493-515	Does each new requirement need to start with "At FAL2"? Again already stated.	"limits of" with "limits on".
						Could this section benefit from placing bullets at the beginning of each new requirement? Does each new requirement	Consider placing bullets at the beginnin of lines 519, 531, and 538 and removing "at FAL3" from each of these
75 6	63C		4.3	9	519-539	need to start with "At FAL3"?	paragraphs.
						Does this mean that subscribers are not considered members of the Federation? It would seem that the Federation is	
						comprised of IDPs, RPs and Subscribers, so IDPs need trust agreements with both RPs and subscribers and RPs need trust	
						agreements with IDPs and subscribers that access RP resources. This is especially true if subscribers are sponsored by an	
76 6	63C		5.1	13	62		Review this statement for accuracy. Consider including subscribers.
77 6	63C		5.1	14	64	6 Editorial comment	Replace 'are' with 'is'
78 6	636	5.1.2		16	Fig.2	On lines 706-707, it states "In this model, the federation authority manages the membership of IdPs and RPs in the federation agreement." However, Figure 2 seems to suggest that Federation Authority oversight is limited to the IDPs.	Recommend revising the Figure to show that RPs can also fail to meet a Federation's requirements.
79 6		5.1.3		18		3 Editorial comment	The word 'federation' on this line should be 'proxy'. It is the 'proxy' that is being discussed here.
80 6		5.1.3		18		8 Recognizing "well-known location" is a term of art, it should be defined and/or explained.	Recommend adding "well-known location" to the Definitions and Abbreviations in the -63 base document.
	050	5.1.5	-+	-10	,,,	Construction of this section and its subsections is messy. Reorganization around topic area (allowlist, blocklist, runtime	Suggest a subsection of Allow Lists with additional sub-sub sections on IDP/RP allowlists (unless they could adequately
81 6	63C		5.3	19	82	3 decision) would make it flow better.	discussed in a single sub section). Ditto Block Lists. Ditto Run-Time Decisions.
81 6	63C		5.3	19	82	3 decision) would make it flow better.	
81 6	63C		5.3	19	82		
81 6	63C		5.3	19	82	The trust agreement between IDPs and RPs and the runtime decision of the subscriber are not either/or decisions.	
81 6	63C		5.3	19	82	The trust agreement between IDPs and RPs and the runtime decision of the subscriber are not either/or decisions. Regardless of whether there is an existing trust agreement or that trust agreement is being established dynamically, the	
81 6	63C		5.3	19	82	The trust agreement between IDPs and RPs and the runtime decision of the subscriber are not either/or decisions.  Regardless of whether there is an existing trust agreement or that trust agreement is being established dynamically, the subscriber still makes a run-time decision. This language appears to contradict that notion. Also, the term 'authorized	discussed in a single sub section). Ditto Block Lists. Ditto Run-Time Decisions.
81 6			5.3		82 835-840	The trust agreement between IDPs and RPs and the runtime decision of the subscriber are not either/or decisions.  Regardless of whether there is an existing trust agreement or that trust agreement is being established dynamically, the subscriber still makes a run-time decision. This language appears to contradict that notion. Also, the term 'authorized	
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	1						
						There is a difference between not accessible and not used. This opening sentence doesn't relate to the discussion in the	
						rest of paragraph about orphan accounts that haven't been accessed in awhile. In addition, the last sentence of this	
						paragraph can also be problematic for users of government services where interaction may be spotty, maybe once	
						annually or even less, but the user wants to maintain the account and finds themselves having to go through initial	
						registration all over again because it has been a year since last access. The 120 day example is not realistic for many	
01	63C	5.4.5		20	1079-1085	interactions with Federal applications but could get widespread adoption simply because it is in this document.	Review/revise this paragraph for clarity. Also consider not giving a 120 day period of inactivity example.
	63C			30		Editorial comment	Insert "IDP" in front of subscriber account.
92	03C		5.5	30	1112	What does "given the wide nature of information access" mean in this context. Is this suggesting that access to an API =	INSERT TOP IN FORCE OF SUBSCRIBER ACCOUNT.
						a wide nature of information access? There are already requirements to limit access based on trust agreements and	
03	63C		5.5	31	11/13	subscriber runtime decisions.	Review/revise this paragraph for clarity.
- 55	030		5.5	31	1143	Subscriber running decisions.	neticw/revise and paragraph for clarity.
94	63C		5.5	31	1146-1149	Simply because a user is authorized to use an RP doesn't mean they will. So this is not a logical conclusion.	Review/revise for clarity.
	050		5.5	51	1110 1115	What does "along with an assertion" mean in this context? Also concluding sentence is confusing, does not seem to be	renewy renser to durity.
95	63C		5.6	32	1178-1186	supported by the rest of the paragraph.	Review/revise this paragraph for clarity. Consider using shorter sentences and more punctuation.
	63C			35		Why is this #1 when there is no #2?	Recommend making this a paragraph.
- 50	050		1	33	1250	This appears to contradict the statement in line 1230. If the list above is conditional that should be made clear. Passing	The state of the s
97	63C		6	35	1263-1265	the AAL should be made mandatory.	Consider adding "where applicable" to the intro statement on line 1230.
- 5,		1	- ĭ	33			and the state of t
						Not sure what "along with the "assertion" is intended to mean here. Could it be that the RP may be given access to the	
98	63C		6	35	1280	identity API at the time it receives the assertion from the IDP? If so, it should say that.	Consider revising this section for clarity
							, i
						800-63 Base document defines a Bearer Assertion as "The assertion a party presents as proof of identity, where	
						possession of the assertion itself is sufficient proof of identity for the assertion bearer." This is not helpful. In Section 4	
						(line 447) a bearer assertion is contrasted with a bound authenticator. It is not clear that the subscriber will be the one	
						presenting the bearer assertion. Most certainly the subscriber will present the bound authenticator. Recommend	
						additional introductory text here to make it clear what a bearer assertion is, who presents it, where it gets its authority,	
99	63C	6.1.1		36	1306	etc.	Review/revise to add more information concerning bearer assertions.
100	63C	6.1.2		36	1318	Should mention that Bound Authenticators are required only at FAL3. Optional at other FALs.	Add a statement at the beginning of 6.1.2 that Bound assertions are required at FAL3.
100	63C	6.1.2		36	1318		Add a statement at the beginning of 6.1.2 that Bound assertions are required at FAL3.
100	63C	6.1.2		36	1318	"The administrator of the RP SHALL determine through independent means that the party to which the authenticator is	Add a statement at the beginning of 6.1.2 that Bound assertions are required at FAL3.
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100	63C	6.1.2		36	1318	"The administrator of the RP SHALL determine through independent means that the party to which the authenticator is issued is the identified subject" So in the event that the RP provides the bound authenticator, they use 'independent means' (not defined) to establish identity. Seems like a punt and puts the RP in the role of CSP. Nor is it mentioned that	Revise the sentence starting on line 1370 to state that "the administrator of the RP SHALL determine through
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101	63C 63C	6.1.2.2 6.1.2.2 6.2.3		40 :	1370 1395-1401 1461	"The administrator of the RP SHALL determine through independent means that the party to which the authenticator is issued is the identified subject " So in the event that the RP provides the bound authenticator, they use 'independent means' (not defined) to establish identity. Seems like a punt and puts the RP in the role of CSP. Nor is it mentioned that this bound authenticator's 'independent means' must meet the criteria SP 800-63A. If this is supposed to deter an AitM, it might be said that weak identity proofing at the RP will aid AitM. Not sure it is clear what the real-world application of this paragraph is. Unless it is accounting for a situation in which a fraudulent user has active FAL3 sessions when the authorized subscriber realizes their bound authenticator has been compromised. Otherwise, it would be unlikely that a subscriber would unbind a bound assertion in the middle of an RP session.  Is assertion encryption mandatory? Only in certain scenarios/FAL5? Should lead with that	Revise the sentence starting on line 1370 to state that "the administrator of the RP SHALL determine through independent means, in accordance with SP 800-63A, that the party to which the authenicator is issued is the identified subject of the RP subscriber account.  Provide some clarification of this scenario.  Revise to indicate whether and/or when assertion encryption is mandatory. Or lead into the section with the sentence beginning on line 1468.
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101 102 103 104 105 106	63C 63C 63C 63C 63C	6.1.2.2 6.1.2.2 6.2.3 6.2.5.1 6.2.5.2	6.3	40 40 43 44 45 46	1370 1395-1401 1461 1501 1519 1569	"The administrator of the RP SHALL determine through independent means that the party to which the authenticator is issued is the identified subject " So in the event that the RP provides the bound authenticator, they use 'independent means' (not defined) to establish identity. Seems like a punt and puts the RP in the role of CSP. Nor is it mentioned that this bound authenticators' independent means' must meet the criteria SP 800-63A. If this is supposed to deter an AltM, it might be said that weak identity proofing at the RP will aid AltM. Not sure it is clear what the real-world application of this paragraph is. Unless it is accounting for a situation in which a fraudulent user has active FAL3 sessions when the authorized subscriber realizes their bound authenticator has been compromised. Otherwise, it would be unlikely that a subscriber would unbind a bound assertion in the middle of an RP session.  Is assertion encryption mandatory? Only in certain scenarios/FAL5? Should lead with that Editorial comment  Since this is an exception case, should make that clear by juxtaposing "however" against "normally".  Gives a scenario for an API hosted by the IDP, but does not give a scenario if that is not the case.	Revise the sentence starting on line 1370 to state that "the administrator of the RP SHALL determine through independent means, in accordance with SP 800-63A, that the party to which the authenicator is issued is the identified subject of the RP subscriber account.  Provide some clarification of this scenario.  Revise to indicate whether and/or when assertion encryption is mandatory. Or lead into the section with the sentence beginning on line 1468.  Remove the two instances of "itself" from this line.  Insert "however" at the beginning of the 2nd sentence: "However, an IDP MAY generate"  Review/revise to indicate requirements (or lack thereof) when the API is not hosted by the IDP.
101 102 103 104 105 1060 107	63C 63C 63C 63C 63C 63C	6.1.2.2 6.1.2.2 6.2.3 6.2.5.1 6.2.5.2 6.3.1	6.3	40 40 43 44 45 46 46	1370 1395-1401 1461 1501 1519 1569 1575	"The administrator of the RP SHALL determine through independent means that the party to which the authenticator is issued is the identified subject " So in the event that the RP provides the bound authenticator, they use 'independent means' (not defined) to establish identity. Seems like a punt and puts the RP in the role of CSP. Nor is it mentioned that this bound authenticator's 'independent means' must meet the criteria SP 800-63A. If this is supposed to deter an AitM, it might be said that weak identity proofing at the RP will aid AitM.  Not sure it is clear what the real-world application of this paragraph is. Unless it is accounting for a situation in which a fraudulent user has active FAL3 sessions when the authorized subscriber realizes their bound authenticator has been compromised. Otherwise, it would be unlikely that a subscriber would unbind a bound assertion in the middle of an RP session.  Is assertion encryption mandatory? Only in certain scenarios/FALs? Should lead with that Editorial comment  Since this is an exception case, should make that clear by juxtaposing "however" against "normally" Gives a scenario for an API hosted by the IDP, but does not give a scenario if that is not the case.  Why a 6.3.1 if there's no 6.3.2?	Revise the sentence starting on line 1370 to state that "the administrator of the RP SHALL determine through independent means, in accordance with SP 800-63A, that the party to which the authenicator is issued is the identified subject of the RP subscriber account.  Provide some clarification of this scenario.  Revise to indicate whether and/or when assertion encryption is mandatory. Or lead into the section with the sentence beginning on line 1468.  Remove the two instances of "itself" from this line.  Insert "however" at the beginning of the 2nd sentence: "However, an IDP MAY generate "  Review/revise to indicate requirements (or lack thereof) when the API is not hosted by the IDP.  Suggest either two subsections (IDP hosted attribute provider and independent attribute provider) or none.
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101 102 103 104 105 106 107 107	63C 63C 63C 63C 63C 63C	6.1.2.2 6.1.2.2 6.2.3 6.2.5.1 6.2.5.2 6.3.1 6.3.1	6.3	40 40 43 44 45 46 46	1370 1395-1401 1461 1501 1519 1569 1575 1580	"The administrator of the RP SHALL determine through independent means that the party to which the authenticator is issued is the identified subject " So in the event that the RP provides the bound authenticator, they use 'independent means' (not defined) to establish identity. Seems like a punt and puts the RP in the role of CSP. Nor is it mentioned that this bound authenticator's 'independent means' must meet the criteria SP 800-63A. If this is supposed to deter an AitM, it might be said that weak identity proofing at the RP will aid AitM.  Not sure it is clear what the real-world application of this paragraph is. Unless it is accounting for a situation in which a fraudulent user has active FAL3 sessions when the authorized subscriber realizes their bound authenticator has been compromised. Otherwise, it would be unlikely that a subscriber would unbind a bound assertion in the middle of an RP session.  Is assertion encryption mandatory? Only in certain scenarios/FALs? Should lead with that Editorial comment  Since this is an exception case, should make that clear by juxtaposing "however" against "normally" Gives a scenario for an API hosted by the IDP, but does not give a scenario if that is not the case.  Why a 6.3.1 if there's no 6.3.2?	Revise the sentence starting on line 1370 to state that "the administrator of the RP SHALL determine through independent means, in accordance with SP 800-63A, that the party to which the authenicator is issued is the identified subject of the RP subscriber account.  Provide some clarification of this scenario.  Revise to indicate whether and/or when assertion encryption is mandatory. Or lead into the section with the sentence beginning on line 1468.  Remove the two instances of "itself" from this line.  Insert "however" at the beginning of the 2nd sentence: "However, an IDP MAY generate "  Review/revise to indicate requirements (or lack thereof) when the API is not hosted by the IDP.  Suggest either two subsections (IDP hosted attribute provider and independent attribute provider) or none.
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101 102 103 104 105 106 107 108 109	63C 63C 63C 63C 63C 63C 63C 63C 63C	6.1.2.2 6.1.2.2 6.2.3 6.2.5.1 6.2.5.2 6.3.1 6.3.1	6.3	40 40 43 44 45 46 46 46 46	1370 1395-1401 1461 1501 1519 1569 1575 1580 1619	"The administrator of the RP SHALL determine through independent means that the party to which the authenticator is issued is the identified subject " So in the event that the RP provides the bound authenticator, they use 'independent means' (not defined) to establish identity. Seems like a punt and puts the RP in the role of CSP. Nor is it mentioned that this bound authenticator's 'independent means' must meet the criteria SP 800-63A. If this is supposed to deter an AitM, it might be said that weak identity proofing at the RP will aid AitM.  Not sure it is clear what the real-world application of this paragraph is. Unless it is accounting for a situation in which a fraudulent user has active FAL3 sessions when the authorized subscriber realizes their bound authenticator has been compromised. Otherwise, it would be unlikely that a subscriber would unbind a bound assertion in the middle of an RP session.  Is assertion encryption mandatory? Only in certain scenarios/FALs? Should lead with that Editorial comment  Since this is an exception case, should make that clear by juxtaposing "however" against "normally" Gives a scenario for an API hosted by the IDP, but does not give a scenario if that is not the case.  Why a 6.3.1 if there's no 6.3.2?  Editorial comment	Revise the sentence starting on line 1370 to state that "the administrator of the RP SHALL determine through independent means, in accordance with SP 800-63A, that the party to which the authenicator is issued is the identified subject of the RP subscriber account.  Provide some clarification of this scenario.  Revise to indicate whether and/or when assertion encryption is mandatory. Or lead into the section with the sentence beginning on line 1468.  Remove the two instances of "itself" from this line.  Insert "however" at the beginning of the 2nd sentence: "However, an IDP MAY generate"  Review/revise to indicate requirements (or lack thereof) when the API is not hosted by the IDP.  Suggest either two subsections (IDP hosted attribute provider and independent attribute provider) or none.  Insert "external" before "attribute provider"
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