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

Please submit responses to dig-comments@nist.gov by March 24, 2023 April 14, 2023

Organization:	Secure Technology Alliance - Identity & Access Forum						
Name of Submitter/POC:	[REMOVED]						
Name of Participants							
	[REMOVED]						

2	Commenter	Publication (Base, 63A, 63B, 63C)	Section	Page #	Line #	Comment (include rationale for comment)
	Michael Harris	63-Base	Identity Proofing & Enrollment	III	175-177	measurable, standardized, and quantifiable inclusive biometric modalities should be added to verified, trusted identity stores, that are together validated against known knowledge basis.
	Michael Harris	63-Base	Identity Proofing & Enrollment	iii	194-195	For maximum adoption, integrity, ethical, and religious reasons privacy must remain a paramount consideration. For equity it is well-known that availability to services, devices, and even fair and equitable use of biometrics are not inclusive or fairly distributed.
	Michael Harris	63-Base	Identity Proofing & Enrollment	III	196-198	Liveness and PAD performance testing will ALWAYS lag behind new subversion techniques. Both sides may eventually escalate in an Al arms race.
	Michael Harris	63-Base	General	iv	230	The implications and affects related to AI/ML should be further defined. Similarly, the guidance related to continuity of operations with maintained assurance in times of disaster (e.g., pandemic).
	Michael Harris	63-Base	Call for Patent	vi	277	NextgenID will submit applicable assurance and response to dig-comments@nist.gov
		63-Base	2.1	5	435-436	"Guidelines do not address the identity of subjects for physical access"
	Bill Windsor					
	Bill Windsor	63-Base	2.3.1	7	521-532	No specific issue with the current language
	Michael Harris	63-Base	2.3.3	8	554-586	The standard guidance should be strengthened such that CSP can operate in a mobile/transportable context to serve those who have transportation challenged.
	Michael Harris	63-Base	2.3.4	9	597	Standard usability metrics can automatically ensure baseline compliance and system integrity for usability, inclusivity, and customer experience validation.
	Bill Windsor	63-Base	4.1	11	618-622	No specific issue with the current language
	Michael Harris	63-Base	4.2	15	721	Implies that CSP boundary doesn't stop at just identiity-proofing and must maintain ongoing "accounts".
	Michael Harris	63-Base	4.3.1	17	735	Need to evolve the standard to make a "something you are" authentication requirement for morre than just the "highest security requirements" (line 740-741).
	Bill Windsor John Jacob	63-Base	4.3.1	17	740-741	"using two factors is adequate". To achieve high security biometrics would provide a high level of confidence compared to other factors.
		63-Base	4.3.1	17	735	Need to evolve the standard to make a "something you are" authentication requirement for morre than just the "highest security requirements" (line 740-741).
	Bill Windsor John Jacob	63-Base	4.4	21	854-855	Current language does not address "downgrade" changes to an authenticator
		63-Base	5	23	929	Need to evolve the guidance to prompt agencies that are now lower than IAL-3 to move towards the new standard baseline and controls if IAL-2+
	Michael Harris	63-Base	5		945-952	
				23		CD/CI methodology can best be applied when using controlled systems and aggregating metrics.
	Michael Harris	63-Base	5.1.2	25	999-1004	Need to advise on the less-obvious harms that could occur in this and the following bullets
	Michael Harris	63-Base	5.2.2.1	31	1200	IAL1 should be obviated given the preclusion of antifraud measures at this IAL level. IAL2 should require automated comparison and validation using authoritative sources and IAL3 should perform all IAL2 checks/validation plus provide human supervision, authentication, and confirmation.
	Michael Harris	63-Base	5.2.3	32	1240	SHALL develop and document based on selection of assurance levels determined by digital identity failure impacts. This is entirely SELF-GOVERNED by the organization and does not enforce minimum safeguards to the constituents.

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paiding production 12. Descriptions of production 12. Descript	Michael Harris	63-Base	5.2.3.1	44	1245	weighted risks associated with the subject, service, transaction, access and other possible attributes/parameters to facilitate CSP provide a more accurate risk-based decision.
JALI 2 (dentity profiles on which the proof is sourchly and convenience, but does not require facilities and in completion. Availability. 2014 are selected in the profile of dentity and convenience fluid 2 dentity propring process that availabilities and in the profile of dentity and convenience fluid 2 dentity propring process that availabilities and in the profile of dentity and convenience fluid 2 dentity propring process that availabilities and in the profile of dentity and convenience fluid 2 dentity propring process that availabilities and in the propring and convenience fluid 2 dentity propring process that availabilities and in the propring and convenience fluid 2 dentity propring and convenience fluid 3 dentity and convenience fluid 3 dentity propring and convenience fluid 3 dentity and convenience fluid	T. Lockwood	63-Base	Definations		1615-1616	guiding principle/fthe EO - but there is not provide policy, framework for normative defination for measuring and assessing equity. See: IEC CD 19795-10 - Information technology — Biometric performance testing and reporting — Part 10: Quantifying biometric system performance variation across demographic groups.
(Au) 2 (dentity parelling worklose halt provide south or you do convenience, but does not regarde facilities and convenience, but does not regarde facilities and convenience						
demonstrative integrate to be some rate as the connect ALZ process? Activity is such as established a 1.3 indicationly destinated by between the inferrity decuments submitted and the portion of the inferrity decuments submitted and the submitted for inferrity deciments and interest submitted and the submitted for inferrity deciments and interest submitted and the submitted for inferrity pooring, as for any whether document submitted and the submitted for inferrity pooring, and and the submitted for inferrity pooring pooring, and and inferrity pooring, and and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the submitted for inferrity pooring, and an analysis of the po	Teresa Wu	63A	General	iii	204-218	(IAL) 2 identity proofing workflow that provide security and convenience, but does not require facial recognition. Accordingly, NIST seeks input on the following questions:
udentitied the destity document. An amost of the identity documents include a portral print, 11 face companion along with Interest and/or operating desterois in base used as the most efficience and less printing in the printing of the pri						
wetted Pre-check status, State or Fells background check, digital mobile driver license and capturing alternative biometric modality that enable remote biometric indical gasties a system of records that is trained and used by other state or federal government agencies. 10						submitted the identity document. As most of the identity documents include a portrait photo, 1:1 face comparison along with liveness and/or spoofing detection has been used as the most efficient and least privacy intrusive method perform identity proofing. As not many identity document issuers provide online system of record checking in real time, not leveraging 1:1 facial recognition in identity document verification would negatively impact the effectiveness of the process. 1:1 facial recognition is a critical tool in identity proofing process. Must NIST consider another identity proofing method without requiring the use of 1:1 facial recognition (and liveness check), NIST should consider enabling the CSP to recognize prior identity proofing events such as leveraging the method of digitally verifying.
SA 2.2 4						vetted Pre-check status, State or FBI background check, digital mobile driver license and capturing alternative biometric modality that enable remote biometric identification or verification against a system of records that is trusted and used
applicant and determine it is authentic, accurate, current, and unexpired. Are these Attributes for Ace These Attributes for Aces Control? Michael Harris G3A 4.1.1 8 479-482 Two forms of evidence with photos may not be presented for all xALS. No direction is provided for objective picture comparison. Is facial 'picture' verification the only approved method for step 3? Michael Harris G3A 4.1.1 9 469 The difference between "Resolution" "Validation" and "Verification" are vague. Michael Harris G3A 4.1.1 9 4495 Typo in page 9: "verifying they the" Michael Harris G3A 4.1.1 9 549 Typo in page 9: "verifying they the" Michael Harris G3A 4.1.1 10 522 Should it be considered that the document issuer performed an equal or greater xAL proofing session prior to document issuance? Michael Harris G3A 4.3.1 10 536 Should it be considered that the digital evidence issuer performed an equal or greater xAL proofing session prior to document issuance? Michael Harris G3A 4.3.2 10 538 Should it be considered that the digital evidence issuance? Michael Harris G3A 4.3.1 538 Object of the person of the proof	Lars Sunborn	63A	2.2	4	416	
Michael Harris GSA 4.1.1 8 479-482 Two forms of evidence with photos may not be presented for all Asia. No direction is provided for objective picture comparison. Is facial "picture" verification the only approved method for step 3? Michael Harris GSA 4.1.1 9 469 The difference between "Resolution" "Validation" and "Verification" are vague. Michael Harris GSA 4.1.1 9 455 Typo in page 9." verifying they the" Michael Harris GSA 4.1.1 19 5 485 Typo in page 9." verifying they the" Michael Harris GSA 4.1.1 10 522 Should it be considered that the document issuer performed an equal or greater xAL proofing session prior to document issuance? Michael Harris GSA 4.3.2 10 536 Should it be considered that the digital evidence issuer performed an equal or greater xAL proofing session prior to degital evidence issuance? Michael Harris GSA 4.3.2 10 538 Should it be considered that the digital evidence issuance? Michael Harris GSA 4.3.3.1 538 Should it be considered and should be required to have an associated digital signature to ensure it is valid and ontampered. Teresa Wu GSA 4.3.3.1 553 We would prefer to see more definition or guidance on "reasonably assumed". This requirement can be difficult to document during assurance certification process. Additionly, there should be harmonization between this section and SP Michael Harris GSA 4.3.3.2 11 554 Section 5 is NORMATIVE, this statement is provided as an example. This ShOULD be a decision made by the CSP Order Policy Inc. Section 5 is NORMATIVE, this statement is provided as an example. This ShOULD be a decision made by the CSP Order require the expired ID to be validated by exempl validating authority and to match the inviduous in real time to the expired ID to be validated by exemple. This ShOULD be a decision made by the CSP Order the surface of the proprior of the middle of the provided as an example. This ShOULD be a decision made by the CSP Order require the expired ID to be validated by exempl validating authority and to match the inviduous in real time to th	Lars Sunborn	63A	4.1	8	496 - 498	applicant and determine it is authentic, accurate, current, and unexpired. Are these Attributes referenced in SP800-205
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Michael Harris 63A 4.3.4.3 13 622-623 trained personnel is not adequate		63A				For inclusivity and equity, SRIP could be mandated when using an expired ID. The CSP could require the expired ID to be validated by external validating authority and to match the invidivual in real time to the expired id with approviate
	Michael Harris	63A	4.3.4.3	13	622-623	trained personnel is not adequate

Michael Hai	ris 63A	4.4.1	14	663	Add the details of "Enrollment code verification" here and switch bullets for numbers. Confusing that all other bullets here have the details for the bolded information but the reader must jump down to another section to undertand this.
Michael Hai	ris 63A	4.4.1	14	673	Storage of captured video & the evidence introduces a whole set of security/PII concerns. Users may exploit this to playback a recording via a user's home web cam - effectively spoofing or injecting video that without a LIVE operator cannot be validated for authenticity. There is no check/balance to ensure that an operator would later return to the video for review.
Michael Hai	63A	4.4.1	14	668	facial image comparison is subjective and non equitable or inclusive. Racial bias exists in substantiated double blind tests proving 'facial blindness.'
Michael Hai	ris 63A	5.1.9	17	964	How can we address individuals who do not possess and cannot obtain required identity evidence, homlessness, little to no access to computing devices, etc.)?
					no access to computing devices, etc.)?
Michael Hai	ris 63A	5.1.9.1	24	999	For CSP referees and/or agents to make risk-based decisions, training as well as a systematic risk-based approach classification should be deployed to facilitate and support risk-based decisions.
Michael Hai	ris 63A	5.1.9.2	25	1003-1012	When allowing and using an applicant reference chain-of-custody rules should apply
Michael Hai	ris 63A	5.5.8	25	1215	what should occur if an applicant leaves the identity proofing session? E.g., 1 second, 30 seconds, longer?
Michael Hai	ris 63A	5.5.8	31	1217	What is meant by 'participate' and for the 'entirety of the identity proofing session'?
Michael Hai	ris 63A	5.5.8	32	1221	Further definition of integrated is required.
Michael Har	ris 63A	5.5.8	32	1221	Collection of fingerprint biometrics should mandate the use of FBI approved fingerprint capture devices and algorithms.
Bill Windso	63A	6.1	32	1238-1242	"With the exception of identity proofing for the purposes of providing one-time access". This maybe a policy decision on the part of the CSP, the risk resides in data retention.
Michael Har	ris 63A	9.3	34	1593	Where applicable, provide a parallel run of the process on self-help step-by-step auxiliary screen or video recording to guide subjects during enrollment.
Michael Hai	63A	9.3	47	1643	Session-End confirmation can prompt subject to select a method (email, text message, etc.) to deliver narrative/instructions on the next step.
Michael Har	ris 63A	10.3	48	1783	Addition of augmented lighting may assist in capturing a broader range of persons
Lars Sunbor	n 63B		53	443	AAL1 requires either single-factor or multi-factor authentication using a wide range of available authentication technologies. Successful authentication requires that the claimant prove possession and control of the authenticator through a secure authentication protocol.This is unclear. A Memorized Secret is Something you know. This may be used to prove possession and control of a token, or Something you have, making this a ZFA
Lars Sunbor	63B		6	713	When processing requests to establish and change memorized secrets, verifiers SHALL compare the prospective secrets against a blocklist that contains values known to be commonly used, expected, or compromised. For example, the list MAY include, but is not limited to: Passwords obtained from previous breach corpuses. Dictionary words. Repetitive or sequential characters (e.g. 'aaaaaa', '1234abcd'). The list of repetitive or Sequential characters may be extensive.
Lars Sunbor	63B		15	722 - 724	Excessively large blocklists SHOULD NOT be used because they frustrate subscribers' attempts to establish an acceptable memorized secret and do not provide significantly improved security. Comment: Agree with this statement as justification for comment above. What is the demarkation in the eight character secret for sequential, or repeated charachters that are allowed, vs blocked?
Lars Sunbor	63B	9.3			Other processing of attributes may carry different privacy risks that call for obtaining consent or allowing subscribers more control over the use or disclosure of specific attributes (manageability) Comment: The references to Section 4.4, makes further references to SP800-53 which then references on to SP800-53B are general. This is unclear, reads similar to a chapter from Dan Brown's novel The Da Vinci Code. Need clarifying detail in one place of how to restrict access to specific PII dataobjects
Lars Sunbor	n 63B	Generally in all sections	60	101	Is there an element of this guidance that you think is missing or could be expanded?
				i	

Michael Harris	63B	5.2.2	III	1235	The limit of consecutive fails of 100 is too high.
Lars Sunborn	63C	General	31		is any language in the guidance confusing or hard to understand? Suggestion: Add a description of intended audience. Some sections could be simplified.
Lars Sunborn	63C			476	" If the assertion is protected by a keyed message authentication code (MAC) using a shared key, the IdP SHALL use a different shared key for each RP" Comment: FIPS 201 3 deprecated use of Shared Keys,
Lars Sunborn	63C		8		See comment on Line 19: The federation authority conducts some level of vetting on each party in the federation to verify compliance with predetermined standards that define the trust agreement. The level of vetting is unique to the use cases and models employed within the federation. This vetting is depicted in theo left side of Figure 2
Lars Sunborn		All			Gemera; comment: There are several NIST and OMB documents that should be aligned with common terms and definitions. Old terms such as LoA are now being repliaced with IAL 1-3, AAL 1-3 and FAL 1-3 Attributes described in SP 800-205, SP 800-157, SP800 - 171, OMB 19-17 are a few examples. Will these be updated to align with the Suite of SP800-63?