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

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

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|------------------------|----------------|
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| Comment # | Publication<br>(Base, 63A, 63B, 63C) | Section          |     | Page #   | Line #  | Comment<br>(Include rationale for comment)  | Suggested Change   |
|-----------|--------------------------------------|------------------|-----|----------|---------|---|--|
|           |                                      |                  |     |          |         | 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  |  |
| 1         | 63-Base                              |                  | 2   | 3        | 351-381 | demonstrate trust, however the one does not necessarily lead to the other. In all, these 4 paragraphs don't add value to<br>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.   |
|           | 03-8856                              |                  | 2   | 3        | 331-361 | The sentence: "The model is supported by a series of processes: identity proofing, authentication,  | belete trese rour paragraphs nom the introduction and begin the introduction with time 582.  |
|           |                                      |                  |     |          |         | and federation." Binding the digital identity to the physical identity is missing here. The series of processes should be   | Recommend including 'binding' here and modifying the following sentence as follows: The identity proofing process  |
| 2         | 63-Base                              |                  | 2   | 3        | 385     | identity proofing and binding (or issuance), authentication, federation.  | establishes that a subject is a specific physical person and binds that physical identity to a digital identity.   |
| 3         | 63-Base                              |                  | 2.1 | 4        | 419     | 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"  |
|           |                                      |                  |     |          |         | What is meant by "availability issues" and how does it relate to "fraudulent activity"? Throughout the document   | Review this sentence for clarity and understanding. Perhaps reword "availability issues" to make it clear that it is talking   |
| 4         | 63-Base                              | 2.3.1            |     | 7        | 510     | 'availability' is used in several contexts.   | about the dearth of identity source information (if that is in fact the correct interpretation).   |
| 5         | 63-Base                              | 2.3.1            |     | 7        | 520     | What are "equivalent standards". Is there any such thing? Could you give examples of an industry standard NIST<br>considers equivalent to FISMA?  | Recommend revising this sentence to assist industry with identifying such equivalence.   |
|           | 63-Base                              | 2.5.1            | 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<br>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       | 689     | Authentication should already have happened.  | Review this sentence for clarity, accuracy and understanding.  |
|           |                                      |                  |     |          |         | "Subscribers have a duty to maintain control of their authenticators and comply with CSP<br>policies in order to remain in good standing with the CSP." This appears to put requirements on Subscribers who are                                       | Recommend rewording this sentence to something along the lines of "CSPs SHALL(?) ensure subscribers understand their<br>responsibilities to maintain control of their authenticators and comply with CSP policies in order to remain in good     |
| 8         | 63-Base                              |                  | 4.2 | 15       | 719     | notoriously hard to control and are not likely to read this document.   | standing with the CSP."  |
| -         |                                      |                  |     |          |         | "In order to request issuance of a new authenticator, " This is actually referring to 'reissuance' or issuance of a second  | × ·  |
| 9         | 63-Base                              |                  | 4.2 | 15       | 721     | 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       | 788     | The word "Some" should be "Multiple". "Some" is vague, whereas "multiple" clearly indicates the intent and is the term<br>being used throughout.  | Replace 'some' with 'multiple'. Could also use "minimum of two" here if prefered.  |
| 11        | 63-Base                              | 4.3.3            |     | 19       | 814     | 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   |
|           |                                      |                  |     |          |         |   | Revise the sentence as follows: Well-designed protocols can protect the integrity and confidentiality of communication<br>between the claimant and the verifier both during and after the authentication, and can help limit the damage that can |
| 12        | 63-Base                              | 4.3.3            |     | 20       | 819-822 | Remove 'can' from this sentence. It becomes more assertive as opposed to appearing tentative.   | be done by an attacker masquerading as a legitimate verifier.  |
|           |                                      |                  |     |          |         |   | Revise as follows: "Additionally, mechanisms located at the verifier can should be implemented to mitigate online  |
| 13        | 63-Base                              | 4.3.3            |     | 20       | 823     | Replace the first 'can' from this sentence with 'should'. It becomes more instructive as opposed to conversational.<br>Is this true? While there will be some advantage, RPs will still need to manage identities within their infrastructures,       | guessing attacks against lower entropy secrets —"  |
| 14        |                                      | 4.4.1            |     | 21       | 883     | particularly for repeat visitors and to protect PII.  | Recommend rephrasing this statement to accurately represent the advantages.  |
| 15        | 63-Base                              | 5.1.3            |     | 28       | 100     | Header missing  | Add the header "Loss of Sensitive Information" here.   |
|           |                                      |                  |     |          |         |   | Remove the word "as" from this line as follows: " which will be as assessed against additional potential impacts as  |
|           | 63-Base<br>63-Base                   | 5.2.3.2<br>5.3.2 |     | 35<br>37 |         | Editorial recommendation<br>Editorial recommendation for clarity.   | described"<br>Remove "select to" from this sentence as follows: " they MAY select to implement a compensating control."  |
| 1/        | 03-0456                              | 5.5.2            |     | 57       | 1459    | Editorial recommendation for clarity.   | Remove select to from this sentence as follows they war 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.   |
| 19        | 63A                                  |                  | 2   | ٦        | 368     | The word 'some' is unnecessary in this sentence   | Remove 'some' as follows: "Examples of this include accessing some government services or executing financial<br>transactions."  |
|           | 00/1                                 |                  | -   | 5        | 500     | Mitigate is defined as "make less severe, serious or painful". Is that what we're trying to do here? Or are we trying to  | Recommend use of a different action word here. "inhibit" may be a good choice as follows: Fraud Prevention: mitigate   |
| 20        | 63A                                  |                  | 2.1 | 4        | 402     | prevent fraudulent access altogether?   | inhibit attempts to gain fraudulent access to benefits, services, data, or assets.   |
| 24        | 63A                                  |                  | 2.2 |          | 405     |   | Recommend replacing "describe" with "define" here as follows: Assurance in a subscriber's identity is described defined  |
| 21        | 63A                                  |                  | 2.2 | 4        | 405     | Do the IALs 'describe' identity assurance or do they 'define' the assurance we can place in an identity assertion<br>"The CSP asks the applicant to take a photo of themself, with liveness checks." and then what? What is a "liveness               | using one of the following Identity Assurance Levels (IAL).<br>Recommend revising this statement to indicate the photo is sent to the CSP. If the expectation is that the photo is taken   |
|           |                                      |                  |     |          |         | check" in this context? This is the only instance of the use of this phrase in the entire document. Elsewhere the term  | with the device's camera, should say so.   |
| 22        | 63A                                  | 4.1.1            |     | 8        | 480     | used is "liveness detection".   | Replace "liveness checks" with "liveness detection".   |
| 23        | 63A                                  | 4.1.1            |     | 8        | 482     | 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<br>applicant's photo from the previous step and determines whether they match.  |
| 25        |                                      |                  |     | 0        | 102     |   | Remove the word 'they' as follows: "verifying they the applicant is in possession and control of the validated phone   |
| 24        | 63A                                  | 4.1.1            |     | 9        | 485     | Editorial recommendation.   | number."   |
|           |                                      |                  |     |          |         | Should this be #6 or should it be a closing paragraph. The intro to the list states "Acceptable digital evidence SHALL<br>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       | 540     | contain an of the following characteristics . Ho states in applicable and feles to verification of the evidence not the<br>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       | 553     | suggests some calculation or statistical reasoning has been employed.   | Recommend revising this bullet to replace "reasonably assumed" with a more measurable term.  |
|           |                                      |                  |     |          |         | Allows evidence to have expired within the past 6 months which contradicts the statement in Section 4.3 (line 498) that   |  |
| 27        | 63A                                  | 4.3.3.1          |     | 11       | 557     | evidence is unexpired.  | Recommend revision here or in Section 4.3 to remove this contradicts.  |

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|----------------------------|--------------------------|---------------------------|-----|---------------------|-------------------------------|--|---|
|                            |                          |                           |     |                     |                               | What does "visually identified the applicant" mean? Does this statement indicate that the id proofing encounter was in-<br>person (or supervised remote)? Why not say so? Thinking about a passport, this would eliminate passports from   |   |
|                            |                          |                           |     |                     |                               | Superior classification unless comparing new picture submitted for passport, risk would emininate passports from   | Recommend revision here to indicate that Superior Evidence requires in-person id proofing or describe what "visually  |
| 28                         | 63A                      | 4.3.3.3                   |     | 12                  | 586                           | identification.'   | identified" means?  |
| 20                         | UJA                      | 4.5.5.5                   |     | 12                  |                               | dentrication.  | identified ineans:  |
|                            |                          |                           |     |                     |                               | 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                  | 606                           | 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   |   |
|                            |                          |                           |     |                     |                               | checked for data correlation for accuracy, consistency, and currency." This sentence does not read well. Seems awkward.  |   |
| 30                         | 63A                      | 4.3.4.4                   |     | 14                  | 653                           | Should there be a 'for' in front of 'accuracy'?  | Recommend review, revise sentence for clarity.  |
|                            |                          |                           |     |                     |                               |  | If Supervised Remote is included in the In-Person definition, make a statement to that effect in this definition. Ditto if i  |
| 31                         | 63A                      | 4.4.1                     |     | 14                  | 664                           | Is Supervised Remote included in the definition of "In Person" here?   | is part of the Remote definition.   |
|                            |                          |                           |     |                     |                               |  | The CSP SHALL assess the risks associated with operating its identity service, according to the NIST risk management  |
| 32                         | 63A                      | 5.1.4                     |     | 20                  | 829                           | 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                  | 909                           | 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                  | 960                           | CSPs provide Trusted Referees. Is this a MUST statement?   | 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   |   |
|                            |                          | 1                         |     | l                   |                               | limiting in a context where the individual needing the assistance with the identity proofing/enrollment process also   |   |
| 35                         | 63A                      | 5.1.9                     |     | 24                  | 987-989                       | needs help conducting transactions   | Review this prohibition concerning its validity/usefulness.   |
|                            |                          | 1                         |     |                     |                               | Do Trusted Referees constitute an in-person interaction in an otherwise remote identity proofing process? Why not  | · · · · · · · · · · · · · · · · · · ·   |
| 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.   |
|                            |                          | 1                         |     |                     |                               |  | If supposition in comment #34 is correct, remove this caveat. Otherwise, make it clear in 5.1.9 that CSP provision of   |
| 37                         | 63A                      | 5.1.9.1                   |     | 24                  | 996                           | Why the caveat "Where Trusted Referees are offered" if CSPs must make them available - see comment #34   | trusted referees is optional.   |
|                            | 63A                      | 5.1.9.2                   |     | 25                  |                               | 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.   |
| 50                         |                          |                           |     |                     | 1010                          |  |   |
| 39                         | 63A                      | 5.1.10                    |     | 25                  | 1014                          | 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.  |
| 40                         | 63A                      |                           | 53  | 26                  |                               | Why the use of "Notably" here?   | Recommend removing "notably" from this sentence   |
| 40                         | USA                      |                           | 5.5 | 20                  | 1040                          | The evidence requirements at IAL1 are the same as IAL2. This seems excessive. Based on the definition, it appears a  | Recommend removing notably non-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                  | 1056                          | one piece of STRONG evidence.  | equivalent).  |
| 41                         | USA                      | 3.3.2.1                   |     | 20                  | 1050                          | At IAL2 there is discussion of id proofing as a remote process and as an in person process. This is missing here, even   | equivalent).  |
| 42                         | 63A                      | 5.3.4                     |     | 27                  | 1079                          | 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                      | 5.5.4                     |     | 27                  | 10/0                          | Not sure why this is a SHOULD. It seems that even at IAL1, sending a notification to an address of record is a basic   | consider parameting the ranguage in Section 5.4.4 as applicable for in person proofing at Net increments.   |
| 12                         | 63A                      | 5.3.5                     |     | 27                  | 1000                          | process for preventing fraud.  | Recommend reconsidering whehter notification to address of record should be SHOULD or SHALL.  |
|                            | 63A                      | 5.4.3                     |     | 28                  | 1000                          | There is no requirement here to validate FAIR evidence (this existed in IAL1).   | Consider adding requirement to validate the FAIR evidence, when presented.  |
|                            |                          | 5.4.3                     |     | 28                  |                               | Editorial comment  |   |
| 45                         | 63A                      | 5.4.3                     |     | 28                  | 1118                          | Editorial comment  | Recommend including the word "both" here: "The CSP SHALL validate all core attributes by both:  |
|                            | co.,                     |                           |     |                     |                               |  |   |
| 46                         | 63A                      | 5.4.5                     |     | 29                  | 1140                          | Does the requirement to send notification to an address of record also apply for in-person proofing?   | Review this requirement for accuracy  |
| 47                         | <b>C</b> 24              | 5.5.1                     |     | 29                  | 4450 4450                     | Does automated bot detection and the other mitigation factors listed here apply to in-person id proofing interactions.   |   |
| 47                         | 63A                      | 5.5.1                     |     | 29                  | 1150-1152                     | 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.  |
| 40                         | 63A                      |                           | 6.1 | 2.4                 | 1241-1242                     | Editorial Comment  | Remove final phrase as follows: " establish a unique subscriber account for that subscriber following the successful<br>identity and final phrase as follows: "   |
|                            |                          |                           | 6.1 |                     |                               |  | identity proofing of an applicant.  |
| 49                         | 63A                      |                           | 7   | 37                  | Table 2                       | Editorial comment  | Third Row/Last column "credit cards" should be singular.  |
|                            |                          | 1                         |     | l                   |                               | 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<br>said   |   |
|                            |                          | 1                         |     | l                   |                               |  |   |
|                            |                          | 1                         |     | l                   |                               | The example given here concerning transmission/storage of SSN appears to be a non-sequitur. In order for validator to  |   |
|                            | ca.                      |                           |     |                     |                               | give a yes/no answer, the SSN would need to be communicated by the third party, which also means the third party   |   |
|                            | 63A                      | 8.1.1                     |     |                     | 1362-1364                     |  | Review/consider revising the example given here   |
| 51                         | 63A                      | _                         | 8.3 | 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   |
| 53                         | 63B                      |                           | 2   | 3                   | 387-389                       | 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  |   |
|                            |                          | 1                         |     | l                   |                               | least two different authentication factors"? And on line 402 the term "two distinct authentication factors" is used. Why   | Recommend reviewing/revising this sentence for accuracy and intent. At a minimum add "at least" before "two   |
| 54                         | 63B                      |                           | 2   | 4                   | 393                           | the difference in terminology?   | different authentication factors" And consider settling on a single term "different" or "distinct".   |
|                            |                          |                           |     |                     |                               | 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 bas  |
| 55                         | 63B                      | 1                         | 4.1 | 6                   | 442                           | 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.  |
|                            |                          | 1                         | 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  |
| 56                         | 63B                      |                           |     |                     |                               | "Authenticators procured by federal government agencies SHALL be validated to meet the requirements of [FIPS140]   |   |
| 56                         | 63B                      |                           |     |                     |                               | Level 1." A companion statement is needed to indicate that non-Federal organizations should meet an equivalent   | Add a sentence here that says: "Authenticators procured by non-federal organizations SHALL be validated to meet the   |
| 56                         | 63B                      |                           |     |                     |                               | standard.  |   |
|                            | 63B<br>63B               | 4.2.2                     |     | 9                   | 523-524                       |  | requirements of [FIPS140] Level 1 or an equivalent standard."   |
|                            |                          | 4.2.2                     |     | 9                   | 523-524                       | 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."   |
|                            |                          | 4.2.2                     |     | g                   | 523-524                       | This entire paragraph is confusing. Federal agencies must offer phishing resistant authenticators but they're generally<br>not required, only recommended? And encouraging use of phishing resistant authenticators by whom? Is this a   | requirements of [FIPS140] Level 1 or an equivalent standard."   |
|                            |                          | 4.2.2                     |     | 9                   | 523-524                       | This entire paragraph is confusing. Federal agencies must offer phishing resistant authenticators but they're generally<br>not required, only recommended? And encouraging use of phishing resistant authenticators by whom? Is this a   | requirements of [FIPS140] Level 1 or an equivalent standard."   |
| 57                         |                          | 4.2.2                     |     | 9                   | 523-524                       | This entire paragraph is confusing. Federal agencies must offer phishing resistant authenticators but they're generally  |   |
| 57                         | 63B                      |                           |     | 9                   |                               | This entire paragraph is confusing. Federal agencies must offer phishing resistant authenticators but they're generally<br>not required, only recommended? And encouraging use of phishing resistant authenticators by whom? Is this a<br>subscriber decision? A relying party decision? Or both? How does a verifier encourage use since verification is after the  | Revise this paragraph for clarity. Perhaps require phishing-resistance.   |
| 57                         | 63B                      | 4.2.2                     |     | 9                   | 539-543                       | This entire paragraph is confusing. Federal agencies must offer phishing resistant authenticators but they're generally<br>not required, only recommended? And encouraging use of phishing resistant authenticators by whom? Is this a<br>subscriber decision? A relying party decision? Or both? How does a verifier encourage use since verification is after the<br>fact?   | Revise this paragraph for clarity. Perhaps require phishing-resistance.<br>Review the following sentence: "AAL3 authentication SHALL occur by the use of one of a combination of authenticator:   |
| 57<br>58<br>59             | 638<br>638<br>638        | 4.2.2                     |     | 9                   | 539-543                       | This entire paragraph is confusing. Federal agencies must offer phishing resistant authenticators but they're generally<br>not required, only recommended? And encouraging use of phishing resistant authenticators by whom? Is this a<br>subscriber decision? A relying party decision? Or both? How does a verifier encourage use since verification is after the<br>fact?<br>Editorial comment                      | Revise this paragraph for clarity. Perhaps require phishing-resistance.<br>Review the following sentence: "AAL3 authentication SHALL occur by the use of one of a combination of authenticators<br>satisfying the requirements in Sec. 4.3". I believe the 'of' here should be 'or'.  |
| 57<br>58<br>59<br>60       | 638<br>638<br>638<br>638 | 4.2.2<br>4.3.1<br>5.1.3.1 |     | 9<br>10<br>21       | 539-543<br>577<br>875         | This entire paragraph is confusing. Federal agencies must offer phishing resistant authenticators but they're generally<br>not required, only recommended? And encouraging use of phishing resistant authenticators by whom? Is this a<br>subscriber decision? A relying party decision? Or both? How does a verifier encourage use since verification is after the<br>fact?<br>Editorial comment<br>Editorial comment | Revise this paragraph for clarity. Perhaps require phishing-resistance.<br>Revise this paragraph for clarity. Perhaps require phishing-resistance.<br>satisfying the requirements in Sec. 4.3.1. Delieve the 'of' here should be 'or'.<br>The word 'the' does not belong here: "rather than by the presenting a secret that the claimant transfers" |
| 57<br>58<br>59<br>60<br>61 | 638<br>638<br>638        | 4.2.2                     |     | 9<br>10<br>21<br>26 | 539-543<br>577<br>875<br>1050 | This entire paragraph is confusing. Federal agencies must offer phishing resistant authenticators but they're generally<br>not required, only recommended? And encouraging use of phishing resistant authenticators by whom? Is this a<br>subscriber decision? A relying party decision? Or both? How does a verifier encourage use since verification is after the<br>fact?<br>Editorial comment                      | Revise this paragraph for clarity. Perhaps require phishing-resistance.<br>Review the following sentence: "AAL3 authentication SHALL occur by the use of one of a combination of authenticators<br>satisfying the requirements in Sec. 4.3". I believe the 'of' here should be 'or'.  |

|  |                                 |                         |     |  | <b>—</b>                      |   | 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                  |     | 38                                     | 8 14                          | 461-1463  | until such time as they can be replaced.   | Please clarify the intent of allowing use of restricted authenticators and the circumstances.  |
|  | (2D)                            |                         | 6.4 |  | 1                             |   | What does throttling have to do with Binding? Seems throttling is more about use of an authenticator than binding the  |  |
| 64 6   | 63B                             |                         | 6.1 | 41                                     | 1 15                          |   | authenticator to my subscriber account.<br>the statement "and to attempt to determine that the endpoint and authenticator are free from malware" introduces a  | Review/revise/explain this statement as appropriate.   |
| 65 6   | 63B                             |                         | 6.1 | 42                                     | 2 15                          |   | great deal of uncertainty "attempt to determine"?  | Recommend removing 'attempt' from this statement or removing this final clause.  |
|  |                                 |                         |     |  | Τ                             |   |  | Recommend revising for clarity/readability as follows: The binding process MAY begin with a request from Once an   |
| 66 6   | 63B                             | 6.1.2.4                 |     | 11-15                                  | : 16                          | 696-1698  | This is a very long runon sentence that is hard to read.   | endpoint that has authenticated to the CSP and obtaininged a binding code from the CSP, that is input into the endpoint<br>associated with the new authenticator and sent to that CSP.T the binding process MAY begin.   |
|  | 055                             | 0.1.2.4                 |     |  |                               |   |  | associated with the new addicated and sent to that est if the binding process with begin.  |
|  |                                 |                         |     |  |                               |   | 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   |  |
| 67.6   | 63B                             |                         | 6.4 | 47                                     | 7 17                          |   | cycles chasing down subscribers to ensure this requirement is met. If these are in the hands of the subscriber and the<br>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"?  |
|  |                                 |                         |     |  | Ť                             |   | ······································   |  |
|  |                                 |                         |     |  |                               |   | "Prior to session expiration, the reauthentication time limit SHALL be extended by prompting the subscriber for the  |  |
| 68 6   | 63B                             |                         | 7.2 | 50                                     | 0                             |   | authentication factors specified in Table 2." This statement is confusing. What is the 'reauthentication time limit'? Is this following termination? Or can it prevent termination? If so, is it contradictory?  | Review/revise for clarity.   |
| 00 0   | 055                             |                         | 1.2 | 50                                     | 1                             | 1051  |  |  |
|  |                                 |                         |     |  |                               |   | 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. That said The title of this subsection is "Reauthentication<br>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                                     | 1                             |   | use of an assertion. Seems the 'or' in the title is misleading   | relationship to the following text and whether it is an accurate representation.   |
| 05 0   | 000                             | 7.2.2                   |     | 51                                     | 1                             | 1050  |  |  |
|  |                                 | 1                       |     | 1                                      |                               | ļ   | "This inequity can be addressed by making inexpensive authenticators such as look-up secrets (see Sec. 5.1.2) available  |  |
| 70 6   | 620                             |                         | 11  | 75                                     | E 24                          |   | for use in the event of a primary authenticator failure or loss". Inexpensive authenticators such as look up secrets could<br>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.  |
| 70 8   | 0.56                            |                         |     |  | <u>, 24</u>                   | 1,1-24/9  | very wennower the AAL. Beens there should be some mention of AAL equivalence here.   | memory revise and statement/example for its effect on the subscriber's ability to conduct the busiless intended.   |
|  |                                 |                         |     |  | Т                             |   |  |  |
| 71 6   | 63C                             | <u> </u>                | 2   | 3                                      | 3                             | 356   | 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.  |
|  |                                 |                         |     |  |                               |   | "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                                      | 6 44                          | 41-442  | confusing. If this is describing a 'dyamic' agreement, why not use that term?  | here.  |
|  |                                 |                         |     |  | Т                             |   | "In existing federation protocols" Not sure the intent of this. Does it mean the federation protocols that exist today?  |  |
| 73 6   | 620                             |                         | 4 1 |  |                               |   | Is it necessary? In this dynamic world, a new protocol could pop up by the time this document is signed, or immediately thereafter. Could it just be "For example"   | Recommend the opening of this paragraph is revised to remove the phrase "In existing federation protocols"   |
| /5   | 550                             |                         | 4.1 | o                                      | -                             | 465   |  | Recommend the opening of this paragraph is revised to remove the phrase. In existing rederation 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<br>requirement? Seems the first two paragraphs are related, while the third & fourth paragraphs are distinct requirements.  | Remove "also" from line 493. Replace "being injected" with "injection" (readability). Consider placing bullets at the  |
|  |                                 |                         |     |  |                               |   | Does each new requirement need to start with "At FAL2"? Again already stated. Reference to "Government-operated  | beginning of lines 493, 505, and 513 and removing "At FAL2" from each of these paragraphs. And on Line 506 replace   |
| 74 6   | 63C                             |                         | 4.2 | 8-9                                    | 49                            |   | IDPs" is referring to "Federal Government" or is this specifying requirements for State, Local, Tribal as well?  | "limits of" with "limits on". On line 513, be clearer about what "government-operated IDPs" this is referring to.  |
| 75   |                                 |                         |     |  |                               |   | Could this section benefit from placing bullets at the beginning of each new requirement? Does each new requirement  | Consider placing bullets at the beginning of lines 519, 531, and 538 and removing "at FAL3" from each of these   |
| 75 6   | 630                             | -                       | 4.3 | 9                                      | 151                           | 19-539  | 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   |  |
| 76 6   | 626                             |                         | 5.1 | 42                                     | -                             |   | agreements with IDPs and subscribers that access RP resources. This is especially true if subscribers are sponsored by an  | Devices while starting and for a surgery of Constitution subscribe and   |
| 76 6   |                                 |                         |     | . 13                                   | -                             |   | affiliated organization (employer, etc.).  | Review this statement for accuracy. Consider including subscribers.  |
| ,,,  | 550                             |                         | 5 1 | 1/1                                    | 1                             | 646   | Editorial comment  | Replace 'are' with 'is'  |
|  |                                 |                         | 5.1 | . 14                                   | 4                             | 646   | Editorial comment  | Replace 'are' with 'is'  |
|  |                                 |                         | 5.1 |  | -                             |   | On lines 706-707, it states "In this model, the federation authority manages the membership of IdPs and RPs in the   |  |
| 78 6   |                                 | 5.1.2                   | 5.1 | 16                                     | 6 Fig                         | ig.2  | On lines 706-707, it states "In this model, the federation authority manages the membership of IdPs and RPs in the<br>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   | 63C                             | 5.1.3                   | 5.1 | 16                                     | 6 Fig                         | ig.2<br>753   | 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.<br>Editorial comment  | Recommend revising the Figure to show that RPs can also fail to meet a Federation's requirements.<br>The word 'federation' on this line should be 'proxy'. It is the 'proxy' that is being discussed here.   |
| 79 6<br>80 6   | 63C<br>63C                      | 5.1.3<br>5.2.1          | 5.1 | 16<br>18<br>19                         | 6 Fig<br>8                    | ig.2<br>753<br>772  | On lines 706-707, it states "In this model, the federation authority manages the membership of IdPs and RPs in the<br>federation agreement." However, Figure 2 seems to suggest that Federation Authority oversight is limited to the IDPs.<br>Editorial comment<br>Is "Manual Registration" the same as "Static Agreements"? If so, that should be explained here.  | Recommend revising the Figure to show that RPs can also fail to meet a Federation's requirements.<br>The word 'federation' on this line should be 'proxy'. It is the 'proxy' that is being discussed here.<br>Consider revising to draw the connection between static trust agreements and manual registration.  |
| 79 6   | 63C<br>63C                      | 5.1.3                   | 5.1 | 16                                     | 6 Fig<br>8                    | ig.2<br>753<br>772<br>798                                   | 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.<br>Editorial comment  | Recommend revising the Figure to show that RPs can also fail to meet a Federation's requirements.<br>The word 'federation' on this line should be 'proxy'. It is the 'proxy' that is being discussed here.<br>Consider revising to draw the connection between static trust agreements and manual registration.<br>Recommend adding "well-known location" to the Definitions and Abbreviations in the -63 base document.   |
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| 79 6<br>80 6<br>81 6                                 | 63C<br>63C<br>63C               | 5.1.3<br>5.2.1          |     | 16<br>18<br>19<br>20                   | 6 Fig<br>8<br>9               | ig.2<br>753<br>772<br>798                                   | On lines 706-707, it states "In this model, the federation authority manages the membership of IdPs and RPs in the<br>federation agreement." However, Figure 2 seems to suggest that Federation Authority oversight is limited to the IDPs.<br>Editorial comment<br>Is "Manual Registration" the same as "Static Agreements"? If so, that should be explained here.<br>Recognizing "well-known location" is a term of art, it should be defined and/or explained.<br>Construction of this section and its subsections is messy. Reorganization around topic area (allowlist, blocklist, runtime  | Recommend revising the Figure to show that RPs can also fail to meet a Federation's requirements.<br>The word 'federation' on this line should be 'proxy'. It is the 'proxy' that is being discussed here.<br>Consider revising to draw the connection between static trust agreements and manual registration.<br>Recommend adding "well-known location" to the Definitions and Abbreviations in the -63 base document.<br>Suggest a subsection of Allow Lists with additional sub-sub sections on IDP/RP allowlists (unless they could adequatel   |
| 79 6<br>80 6<br>81 6                                 | 63C<br>63C<br>63C               | 5.1.3<br>5.2.1          |     | 16<br>18<br>19<br>20                   | 6 Fig<br>8<br>9               | ig.2<br>753<br>772<br>798<br>823                            | On lines 706-707, it states "In this model, the federation authority manages the membership of IdPs and RPs in the<br>federation agreement." However, Figure 2 seems to suggest that Federation Authority oversight is limited to the IDPs.<br>Editorial comment<br>Is "Manual Registration" the same as "Static Agreements"? If so, that should be explained here.<br>Recognizing "well-known location" is a term of art, it should be defined and/or explained.<br>Construction of this section and its subsections is messy. Reorganization around topic area (allowlist, blocklist, runtime<br>decision) would make it flow better.  | Recommend revising the Figure to show that RPs can also fail to meet a Federation's requirements.<br>The word 'federation' on this line should be 'proxy'. It is the 'proxy' that is being discussed here.<br>Consider revising to draw the connection between static trust agreements and manual registration.<br>Recommend adding "well-known location" to the Definitions and Abbreviations in the -63 base document.<br>Suggest a subsection of Allow Lists with additional sub-sub sections on IDP/RP allowlists (unless they could adequatel   |
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| 79 6<br>80 6<br>81 6                                 | 63C<br>63C<br>63C               | 5.1.3<br>5.2.1          |     | 16<br>18<br>19<br>20                   | 6 Fig<br>8<br>9               | ig.2<br>753<br>772<br>798<br>823                            | 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. Editorial comment Is "Manual Registration" the same as "Static Agreements"? If so, that should be explained here. Recognizing "well-known location" is a term of art, it should be defined and/or explained. Construction of this section and its subsections is messy. Reorganization around topic area (allowlist, blocklist, runtime decision) would make it flow better. 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  | Recommend revising the Figure to show that RPs can also fail to meet a Federation's requirements.<br>The word 'federation' on this line should be 'proxy'. It is the 'proxy' that is being discussed here.<br>Consider revising to draw the connection between static trust agreements and manual registration.<br>Recommend adding "well-known location" to the Definitions and Abbreviations in the -63 base document.<br>Suggest a subsection of Allow Lists with additional sub-sub sections on IDP/RP allowlists (unless they could adequatel<br>discussed in a single sub section). Ditto Block Lists. Ditto Run-Time Decisions.   |
| 79 6<br>80 6<br>81 6<br>82 6                         | 63C<br>63C<br>63C<br>63C        | 5.1.3<br>5.2.1          | 5.3 | 16<br>18<br>19<br>20<br>19             | 6 Fig<br>8<br>9<br>0          | ig.2<br>753<br>772<br>798<br>823                            | 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. Editorial comment Is "Manual Registration" the same as "Static Agreements"? If so, that should be explained here. Recognizing "well-known location" is a term of art, it should be defined and/or explained. Construction of this section and its subsections is messy. Reorganization around topic area (allowlist, blocklist, runtime decision) would make it flow better. 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 party' see here is confusing. IDPs are the 'authorized party' for the attributes released iaw with trust agreement, but  | Recommend revising the Figure to show that RPs can also fail to meet a Federation's requirements.<br>The word 'federation' on this line should be 'proxy'. It is the 'proxy' that is being discussed here.<br>Consider revising to draw the connection between static trust agreements and manual registration.<br>Recommend adding "well-known location" to the Definitions and Abbreviations in the -63 base document.<br>Suggest a subsection of Allow Lists with additional sub-sub sections on IDP/RP allowlists (unless they could adequated<br>discussed in a single sub section). Ditto Block Lists. Ditto Run-Time Decisions.<br>Revise this paragraph to make it clear that trust agreements/allowlists/blocklists do not override subscriber run-time   |
| 79 6<br>80 6<br>81 6                                 | 63C<br>63C<br>63C<br>63C        | 5.1.3<br>5.2.1          |     | 16<br>18<br>19<br>20<br>19             | 6 Fig<br>8<br>9<br>0          | ig.2<br>753<br>772<br>798<br>823                            | 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. Editorial comment Is "Manual Registration" the same as "Static Agreements"? If so, that should be explained here. Recognizing "well-known location" is a term of art, it should be defined and/or explained. Construction of this section and its subsections is messy. Reorganization around topic area (allowlist, blocklist, runtime decision) would make it flow better. 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  | Recommend revising the Figure to show that RPs can also fail to meet a Federation's requirements.<br>The word 'federation' on this line should be 'proxy'. It is the 'proxy' that is being discussed here.<br>Consider revising to draw the connection between static trust agreements and manual registration.<br>Recommend adding "well-known location" to the Definitions and Abbreviations in the -63 base document.<br>Suggest a subsection of Allow Lists with additional sub-sub sections on IDP/RP allowlists (unless they could adequate)<br>discussed in a single sub section). Ditto Block Lists. Ditto Run-Time Decisions.   |
| 79 6<br>80 6<br>81 6<br>82 6                         | 63C<br>63C<br>63C<br>63C        | 5.1.3<br>5.2.1          | 5.3 | 16<br>18<br>19<br>20<br>19             | 6 Fig<br>8<br>9<br>0          | ig.2<br>753<br>772<br>798<br>823<br>823<br>35-840           | 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. Editorial comment Is "Manual Registration" the same as "Static Agreements"? If so, that should be explained here. Recognizing "well-known location" is a term of art, it should be defined and/or explained. Construction of this section and its subsections is messy. Reorganization around topic area (allowlist, blocklist, runtime decision) would make it flow better. 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 party' see here is confusing. IDPs are the 'authorized party' for the attributes released iaw with trust agreement, but  | Recommend revising the Figure to show that RPs can also fail to meet a Federation's requirements.<br>The word 'federation' on this line should be 'proxy'. It is the 'proxy' that is being discussed here.<br>Consider revising to draw the connection between static trust agreements and manual registration.<br>Recommend adding "well-known location" to the Definitions and Abbreviations in the 6-3 base document.<br>Suggest a subsection of Allow Lists with additional sub-sub sections on IDP/RP allowiists (unless they could adequately<br>discussed in a single sub section). Ditto Block Lists. Ditto Run-Time Decisions.<br>Revise this paragraph to make it clear that trust agreements/allowlists/blocklists do not override subscriber run-time  |
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|           |            | 1              |     |          | 1         |  |   |
|-----------|------------|----------------|-----|----------|-----------|--|---|
|           |            |                |     |          |           | "The RP also collects attributes about users who have not interacted with the RP system yet, which can cause privacy   |   |
|           |            |                |     |          |           | issues." Not sure why this sentence is here. All information stored at the RP could cause privacy issues, regardless of  |   |
|           |            |                |     |          |           | whether the subscriber has initiated a transaction with the RP, so why single this out? If this needs to be addressed, it  |   |
| 87        | 63C        | 5.4.1          |     | 26       | 984-986   | should have its own paragraph and not just be tossed in here without explanation.  | Remove this sentence.   |
|           | 500        |                |     | 27       |           |  | On line 1010 insert "IDP" before subscriber account (both RP and IDP have subscriber accounts). On line 1011, remove "with"   |
| 88        | 63C        | 5.4.2          |     | 27       | 1010-1011 | Editorial comment  | "with".   |
|           |            |                |     |          |           | This seems overly onerus on the subscriber. If the subscriber decides to change IDPs, the entire relationship with the RP  |   |
| 89        | 63C        | 5.4.2          |     | 28       | 1026-1028 | may need to be reestablished. Or is this only referring to the data related to accessing the RP  | Clarify what is being erased here.  |
|           |            |                |     |          |           | This is confusing: "A provisioning API SHALL NOT be made available under a dynamic or implicit trust agreement." Aren't  |   |
| 00        | 63C        |                |     | 28       | 1040      | "dynamic" and "implicit" two terms for the same thing? None of these terms are in the Definitions in -63 Base<br>document.   | Settle on one term and keep using it. Dynamic?  |
| 90        | 050        |                |     | 20       | 1049      | document.  |   |
|           |            |                |     |          |           | Earlier in the document, IDP notification to the RP is a SHOULD. Here it says if an API is used it is a SHALL. This is   |   |
|           |            |                |     |          |           | contradictory and can be confusing. People don't read these documents cover to cover, they reference them and if it says   |   |
|           |            |                |     |          |           | two different things in two different locations, the right answer might be missed. Also, is the IDP required to provide the  |   |
| 91        | 63C        | 5.4.3          |     | 29       | 1061      | reason for termination? Seems that might make a difference.  | code.   |
|           |            |                |     |          |           |  |   |
|           |            |                |     |          |           | 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  |   |
| a-        | 626        |                |     |          | 4070 400- | registration all over again because it has been a year since last access. The 120 day example is not realistic for many  |   |
|           | 63C<br>63C | 5.4.5          | 5.5 | 29<br>30 |           | interactions with Federal applications but could get widespread adoption simply because it is in this document.<br>Editorial comment   | Review/revise this paragraph for clarity. Also consider not giving a 120 day period of inactivity example.  |
| 93        | 050        |                | 5.5 | 30       | 1112      | Editorial comment<br>What does "given the wide nature of information access" mean in this context. Is this suggesting that access to an API =  | Insert "IDP" in front of subscriber account.  |
|           |            |                |     |          |           | a wide nature of information access? There are already requirements to limit access based on trust agreements and  |   |
| 94        | 63C        |                | 5.5 | 31       | 1143      | subscriber runtime decisions.  | Review/revise this paragraph for clarity.   |
|           |            |                |     |          |           |  |   |
| 95        | 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.  |
| 00        | 630        |                | 5.6 | 22       | 1170 1100 | What does "along with an assertion" mean in this context? Also concluding sentence is confusing, does not seem to be<br>supported by the rest of the paragraph.  | Review/revise this paragraph for clarity. Consider using shorter sentences and more punctuation.  |
|           | 63C        | 1              | 5.6 | 32       |           | Supported by the rest of the paragraph.<br>Why is this #1 when there is no #2?   | Review/revise this paragraph for clarity. Consider using shorter sentences and more punctuation.<br>Recommend making this a paragraph.  |
| 97        | 050        |                | 0   | 55       | 1250      | This appears to contradict the statement in line 1230. If the list above is conditional that should be made clear. Passing   |   |
| 98        | 63C        |                | 6   | 35       | 1263-1265 | the AAL should be made mandatory.  | Consider adding "where applicable" to the intro statement on line 1230.   |
|           |            |                |     |          |           |  |   |
|           |            |                |     |          |           | Not sure what "along with the "assertion" is intended to mean here. Could it be that the RP may be given access to the   |   |
| 99        | 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  |
|           |            |                |     |          |           | 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<br>100 | 63C        | 6.1.1<br>6.1.2 |     | 36<br>36 | 1306      |  | Review/revise to add more information concerning bearer assertions.<br>Add a statement at the beginning of 6.1.2 that Bound assertions are required at FAL3.  |
| 100       | 630        | 6.1.2          |     | 30       | 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 FALS.   |
|           |            |                |     |          | 1         | "The administrator of the RP SHALL determine through independent means that the party to which the authenticator is  |   |
|           |            |                |     |          | 1         | 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  |
|           | 500        |                |     |          |           | this bound authenticator's 'independent means' must meet the criteria SP 800-63A. If this is supposed to deter an AitM,  | independent means, in accordance with SP 800-63A, that the party to which the authenicator is issued is the identified  |
| 101       | 63C        | 6.1.2.2        |     | 40       | 1370      | it might be said that weak identity proofing at the RP will aid AitM.<br>Not sure it is clear what the real-world application of this paragraph is. Unless it is accounting for a situation in which a   | subject of the RP subscriber account.   |
|           |            |                |     |          |           | 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   |   |
| 102       | 63C        | 6.1.2.2        |     | 40       | 1395-1401 |  | Provide some clarification of this scenario.  |
|           |            | 1              | _   |          | 1         |  | Revise to indicate whether and/or when assertion encryption is mandatory. Or lead into the section with the sentence  |
| 103       |            | 6.2.3          |     | 43       |           | Is assertion encryption mandatory? Only in certain scenarios/FALs? Should lead with that   | beginning on line 1468.   |
| 104       | 63C        | 6.2.5.1        |     | 44       | 1501      | Editorial comment  | Remove the two instances of "itself" from this line.  |
| 105       | 630        | 6.2.5.2        |     | 45       | 1510      | Since this is an exception case, should make that clear by juxtaposing "however" against "normally"  | Insert "however" at the beginning of the 2nd sentence: "However, an IDP MAY generate"   |
| 105       |            | 0.2.J.2        | 6.3 | 45       |           | Gives a scenario for an API hosted by the IDP, but does not give a scenario if that is not the case.   | Review/revise to indicate requirements (or lack thereof) when the API is not hosted by the IDP.   |
| 108       |            | 6.3.1          | 0.3 | 40       |           | Why a 6.3.1 if there's no 6.3.2?   | Suggest either two subsections (IDP hosted attribute provider and independent attribute provider) or none.  |
| 107       |            | 6.3.1          |     | 46       |           | Editorial comment  | Insert "external" before "attribute provider"   |
| 109       |            |                | 7.1 |          |           | This should make provision for a "family of RPs" as discussed previously   | Add "or family of RPs" to #1  |
|           |            |                |     |          |           |  |   |
| 110       | 63C        |                | 7.1 | 48       | 1621      | What constitutes "a small number of minutes"? Very subjective. Where is calculating the "small" number explained?  | Consider revising this statement to make it less ephemeral.   |
|           |            | 1              |     |          | 1         | This communication to the board by an end of the Channel board barrels in the State of the State |   |
|           |            | 1              |     |          | 1         | This seems very pejorative. It gives the reasons not to do Front Channel, but doesn't identify itself as the drawbacks to<br>front channel. It would also be neater to identify the drawbacks last, not right under the diagram. In fact, narrative that   | The description of what is going on in the diagram above should be inserted here. These two paragraphs should be<br>prefaced with language such as "Drawbacks to front channel communication include" or words to that effect. They |
| 111       | 630        |                | 7 2 | 51-52    | 1656-1670 | describes the front channel process (as is seen for back channel in 7.1) seems to be missing.  | should also be at the end of the section, so the requirements below don't get missed.   |
| 111       |            |                | 1.2 | J 1 JZ   | 1000 10/0 |  | The set of the second by the requirements below don't get initiated.  |