

Instructions:

- *This checklist is to be used as an internal tool and is optional for completion for electronic information systems used in the conduct of NIAID DAIDS Network studies conducted within the Clinical Trials Networks.*
- *This checklist may be completed by the entity that owns/implements the system. Please utilize available reference resources including the Electronic Information Systems Policy and Appendix A, Requirements for using Electronic Information Systems in Clinical Research for additional information.*
- *This checklist is an optional internal tool that may be completed for all new electronic information systems and for all subsequent software release versions of the system. The checklist serves as a guide to capture important information about the electronic system and does not replace validation documentation requirements.*

Site Information

Date of Submission:	
Site Number (if applicable):	
Site/Organization Name:	
Site/Organization Contact Name:	
Site/Organization Contact Phone:	
Site/Organization Contact Email:	

System Information

Name of System being Assessed:	
System Version #:	Date of Implementation:
Describe the purpose of the system:	
Describe the process surrounding the use of the system:	

System Information

Vendor Name:		Software Acquisition: <input type="checkbox"/> Purchased Software (Run/Installed locally) <input type="checkbox"/> In-House/Custom Developed Software <input type="checkbox"/> Software as a Service (SaaS)
System Contact Person:		
Other Information:		

Determining System Validation Scope

- Utilize Section 1.0 to determine the validation scope of the electronic information system being used within the Clinical Trials Networks according to the regulations and your site or organization's procedures.

Section 1.0 Determination of Validation Scope

1.1	Does the system generate, capture, process, report, store, or archive raw and/or source data or records?	<input type="checkbox"/> Yes <input type="checkbox"/> No
1.2	Will the data or records from this system be submitted as part of required periodic (e.g., annual) study reports?	<input type="checkbox"/> Yes <input type="checkbox"/> No
1.3	Will the data or records from this system be part of a final clinical study report (CSR)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
1.4	Would the data or records, such as essential documents, from this system be required to reconstruct a trial?	<input type="checkbox"/> Yes <input type="checkbox"/> No
1.5	Could participant safety be impacted from decisions made using incorrect or inaccurate data or records from this system?	<input type="checkbox"/> Yes <input type="checkbox"/> No
1.6	Could participant safety be impacted from other systems processing incorrect or inaccurate data or records from this system?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Based on organizational procedures and regulations use the information in Section 1.0 to begin determining the validation needs and scope of the electronic system. Proceed to Section 2.0.

Electronic Records Requirements

Section 2.0 Validation

2.1	Has this system been validated by your office according to in-house computer system validation procedures?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2.2	If the system has been validated by your office, is the validation documentation available for review, if required, during a regulatory inspection?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2.3	Has the vendor validated the system according to the vendor's computer system validation procedures?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2.4	If the vendor has validated the system, can they provide you with a validation certificate or a similar documentation?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2.5	If the vendor has validated the system, will they make the validation documentation available for review, if required, during a regulatory inspection?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Note: If any of the answers above are "No", consider what mitigations of this risk are possible. Consider some type of documented testing with objective evidence to prove at a minimum the functions being used to support the clinical study are working accurately and consistently.

Risk Mitigations/Comments:

Section 3.0 Electronic Records Controls

3.1	Is the system able to produce accurate and complete copies of the data/records contained within the system (e.g., on paper)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3.2	Is the system able to provide the information in an electronic format (e.g., Excel file, .csv, .xml or similar data extract)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3.3	Is the necessary equipment available to place the electronic data/records on an encrypted universal serial bus (USB) drive or other media if required by the regulatory authority?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Note: If any of the answers above are "No", consider what mitigations of this risk are possible.

Risk Mitigations/Comments:

Section 4.0 Protection of Records (applicable for locally run/installed and SaaS systems)

4.1	Are the data/records readily retrievable throughout the retention period?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.2	Are the data/records backed up regularly and maintained in a separate location (e.g., alternate clinical site, another location, cloud storage) for disaster recovery purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Section 4.0 Protection of Records (applicable for locally run/installed and SaaS systems)

4.3	Is a disaster mitigation and recovery plan in place and regularly reviewed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.4	Are the data/records protected using a firewall?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.5	Have firewall rules been defined by the site/organization?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.6	Are firewall rules and setting periodically reviewed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.7	Is anti-virus software installed to prevent, detect, and mitigate the effects of viruses, malware, and other harmful software?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.8	Is the anti-virus software continuously monitored and updated with the most recent virus definitions?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.9	Are relevant security patches for platforms and operating systems applied in a timely manner according to vendor recommendations?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.10	Is penetration testing conducted at regular intervals for internet facing systems?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.11	Has an intrusion detection and prevention system been implemented on internet facing systems?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.12	Have security incident management procedures been defined including reporting, criticality assignment, and corrective and preventive action implementation?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.13	Have interfaces between systems (e.g., transfer of data from one system to another) been clearly defined and validated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Note: If any of the answers above are “No”, consider what mitigations of this risk are possible. Consider when/if keeping paper records might be necessary if systems are not adequately protected. Add a strong virus protection software to the computer system if possible. Ensure information is available to reconstruct source documentation for regulatory inspection and be prepared to describe how data was obtained and managed to prove the integrity of the data. Document changes made to any systems and carefully evaluate the effects of those changes.

Risk Mitigations/Comments:

Section 5.0 Access Control of Records

5.1	Does the system ensure that only authorized individuals can use it, electronically sign records, alter records, or perform other operations as required?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.2	Does the system prompt for an individual’s login account and password to prevent unauthorized users from accessing data/records?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Section 5.0 Access Control of Records

5.3	Are controls in place to maintain the uniqueness of the user ID and password so that no individual can have the same combination?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.4	Is a process in place to promptly remove access upon the departure of an internal employee or upon notification of staff departures from external entities/users?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.5	Are requests for access approved and documented?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.6	Are users granted the fewest privileges and access rights (least-privilege rule) for them to undertake their specific job duties for as short a time as necessary?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.7	Are user accounts traceable to a named user (e.g., no generic or shared accounts)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.8	Are periodic user access and privilege review procedures in place that include but are not necessarily limited to ensuring only necessary and approved users have access, their roles and permissions are appropriate, and their access is promptly removed when no longer necessary or permitted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.9	Are processes in place to deactivate lost, stolen, missing or otherwise compromised IDs, tokens, cards, etc. that are used for access and/or electronic signature purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.10	Are processes in place for initial and periodic testing of IDs, tokens, cards, etc. that are used for access and/or electronic signature purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.11	Is there a process to ensure the recalling of IDs, tokens, cards, etc. if a person leaves employment or is transferred to a different job role?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.12	Does the system have safeguards to prevent unauthorized use of passwords and/or identification codes?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.13	Is there a process in place to immediately detect and report attempts at unauthorized use of passwords and/or identification codes?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.14	Have password policies been implemented that include but are not necessarily limited to, length, complexity, expiry, login attempts, and logout reset?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.15	Have the password policies been verified and documented as part of the system validation?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.16	Are individual accounts password protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.17	Are passwords required to be reset at some set periodic interval?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.18	Is the system setup with an automatic inactivity logout to log out users after a defined period of inactivity?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.19	Is the system setup to prevent the average user from setting the inactivity timeframe or deactivating the functionality?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Section 5.0 Access Control of Records

5.20	Does the system limit the number of failed login attempts?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.21	Is the system available with full, direct, and read-only access (this requires a unique identification method e.g., username and password) upon request by inspectors from regulatory authorities?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Note: If any of the answers above are “No”, consider what mitigations of this risk are possible. Implementing a procedure that is followed to onboard or offboard and employee is one way to mitigate risks regarding control of access. A procedure to train individuals on protecting their accounts is also recommended to include: 1. Do not share individual account access with other users, 2. Do not log on to a system to provide access for another user, 3. Require users to change passwords at regular intervals, and 4. Automatically lock computers when left idle for a short period of time.

Risk Mitigations/Comments:

Section 6.0 Audit Trails

6.1	Does the system have an audit trail to track user entries and actions that create, modify, or delete data/records? <i>Note: if answered No or N/A, all other answers in this section will be N/A.</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.2	Does the audit trail keep copies of deleted records?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.3	Does the audit trail ensure that the previously recorded information is still available (i.e., not obscured by the change)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.4	Does the audit trail contain a timestamp that is applied automatically?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.5	Does the audit trail track changes in a consistent time zone (e.g., Coordinated Universal Time (UTC))?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.6	Does the audit trail keep track of the individual user, including system administrators, who made the change?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.7	Is the audit trail protected from modification and deletion by any user, including system administrators?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.8	Is it possible to discern invalid or altered records?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.9	Is the audit trail available for review throughout the data/record’s retention period?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.10	Is the audit trail stored within the system itself?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Section 6.0 Audit Trails

6.11	Is the audit trail in human-readable format that is comprehensible?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.12	Is the audit trail visible at the data-point level in the live system?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.13	Is it possible to export the entire audit trail as a dynamic data file (e.g., into an Excel workbook versus as a PDF)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.14	Have audit trail review procedures been put in place that include documentation of the reviews?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Note: If any of the answers above are “No”, consider what mitigations of this risk are possible. For an audit trail to be compliant it must meet all the above criteria. Consider a change log with needed details if components of the above audit trail requirements are missing.

Risk Mitigations/Comments:

Section 7.0 Operational Checks

7.1	Is the computer system date and time synchronized to an international standard setting source (e.g., UTC)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7.2	Does the system limit a user’s ability to change date or time?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7.3	Does the system include year, month, day, hour, minute, and time zone in time stamps?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7.4	Does the system have checks to ensure steps are performed in the correct order if the sequence of system steps or events is important?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7.5	Does the system contain checks to identify invalid values and alert the user?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7.6	Does the system prevent default data entries or automatic duplication of data? (N/A if system is programmed to do so)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Note: If any of the answers above are “No”, consider what mitigations of this risk are possible. Procedures to ensure users know the order of tasks can help mitigate risks regarding this requirement. Consideration may also be given to documenting all date and time changes made to the computer including when changes are made for daylight savings time. Also consider documenting time zone references and naming conventions in the study and validation documentation.

Risk Mitigations/Comments:

Section 8.0 Device Checks

- | | | |
|-----|--|---|
| 8.1 | Does the system track which device or piece of equipment was used to capture the data (e.g., vital sign, ECG)? This applies only when more than one device is available for use. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|-----|--|---|

Note: If the answer above is “No”, consider what mitigations of this risk are possible. Consider recording this information in a comment on the record or some type of log.

Risk Mitigations/Comments:

Section 9.0 Training

- | | | |
|-----|---|--|
| 9.1 | Do the individuals that develop, maintain, and/or use the system have sufficient education, training, and experience to perform their assigned tasks? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 9.2 | Is system training documented? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

Note: If any of the answers above are “No”, consider what mitigations of this risk are possible. Provide training on the operation and use of the system and document that the training occurred. Conduct training sessions as needed to ensure new personnel are adequately trained as they come on board.

Risk Mitigations/Comments:

Section 10.0 System Documentation

- | | | |
|------|---|---|
| 10.1 | Is the distribution of, access to, and the use of systems operation and maintenance documentation controlled? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 10.2 | Are there revision and change control procedures established to maintain an audit history that documents time-sequenced development and modification of system documentation? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 10.3 | Have procedures been put in place to ensure that the computerized system is used correctly? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |

Note: If any of the answers above are “No”, consider what mitigations of this risk are possible. Ensure documentation contains a revision history to identify changes made and keep copies of all published versions of the documentation.

Risk Mitigations/Comments:

Section 11.0 Controls for Open Systems

11.1	Are the data (at rest) encrypted on the storage device?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
11.2	Are the data (in motion) encrypted throughout the process of managing and/or transmitting the data?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Note: If any of the answers above are “No”, consider what mitigations of this risk are possible.

Risk Mitigations/Comments:

Section 12.0 Electronic Signature Policy

12.1	Is there a formal policy for internal systems that ensures individuals are held fully accountable and responsible for actions initiated under their electronic signatures?	<input type="checkbox"/> Yes <input type="checkbox"/> No
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Note: If the answer above is “No”, consider what mitigations of this risk are possible. Consider writing a policy or adding language to your onboarding documents that must be accepted by the employee.

Risk Mitigations/Comments:

Electronic Signature Requirements

Section 13.0 Electronic Signature Determination

13.1	Does the system use electronic signatures?	<input type="checkbox"/> Yes <input type="checkbox"/> No
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Question answered **No**: This is the end of this section.

Question answered **Yes**: Proceed to **Section 14.0 Electronic Signature Certification**.

Section 14.0 Electronic Signature Certification (for internal staff users only)

14.1	Have plans been submitted in writing to use electronic signature to the FDA?	<input type="checkbox"/> Yes <input type="checkbox"/> No
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Section 14.0 Electronic Signature Certification (for internal staff users only)

Note: If the answer above is “No”, consider what mitigations of this risk are possible. Consider submitting the non-repudiation agreement by using the sample letters provided by the FDA.

The Letter of Non-Repudiation Agreement can be sent to ESG Help Desk at ESGHelpDesk@fda.hhs.gov or a physical copy can be sent to:

Electronic Submissions Gateway
U.S. Food and Drug Administration
3WFN, Room 7C34
12225 Wilkins Avenue
Rockville, MD 20852

Risk Mitigations/Comments:

Section 15.0 Identity Verification

15.1	Is there a process in place to verify the identity of the individual before providing them the ability to sign electronically?	<input type="checkbox"/> Yes <input type="checkbox"/> No
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Note: If the answer above is “No”, consider what mitigations of this risk are possible. Establish a process for verifying identity and consider including this process in the account management policy/procedure.

Risk Mitigations/Comments:

Section 16.0 Electronic Signature Uniqueness

16.1	Are electronic signatures unique to an individual?	<input type="checkbox"/> Yes <input type="checkbox"/> No
16.2	Is there a process in place to ensure electronic signatures are never reused by or reassigned to anyone else?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Note: If any of the answers above are “No”, consider what mitigations of this risk are possible. Establish a user account management policy or procedure to ensure user identifications (IDs) are not reused and consider including that if a person is rehired that they should receive the same user ID assigned previously to ensure an individual does not have more than one electronic signature representation.

Risk Mitigations/Comments:

Section 17.0 Electronic Signature Components

17.1	Does the signature require the use of at least two components (i.e., a user ID and password or an ID card and pin number)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
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Section 17.0 Electronic Signature Components

17.2	Does the system prompt for a re-entry of the password or pin upon each application of the electronic signature?	<input type="checkbox"/> Yes <input type="checkbox"/> No
17.3	Does the system prompt for both components (i.e., a user ID and password or an ID card and pin number) when the signing is not performed during a single, continuous period of controlled system access?	<input type="checkbox"/> Yes <input type="checkbox"/> No
17.4	Is there a process in place to ensure electronic signatures are only used by their genuine owners?	<input type="checkbox"/> Yes <input type="checkbox"/> No
17.5	Are electronic signatures administered and executed in a way that requires collaboration of at least two individuals if an attempt is made to falsify a signature?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Note: If any of the answers above are “No”, consider what mitigations of this risk are possible. Consider a policy that assures user IDs and passwords are not shared and that users properly log out upon completion of their work particularly if they are using shared workstations.

Risk Mitigations/Comments:

Section 18.0 Electronic Signature Elements

18.1	Does the signed electronic record contain the printed name of the signer?	<input type="checkbox"/> Yes <input type="checkbox"/> No
18.2	Does the signed electronic record contain the date and time of the signing (including time zone) (e.g., UTC)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
18.3	Does the signed electronic record contain the meaning of the signature that was applied (e.g., approval, review)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
18.4	Is the electronic signature and all three (3) of its components (printed name of signer, date and time of signing, and meaning of signature) available for viewing when the electronic record is shown in human readable format (e.g., on an electronic display screen or on a report)?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Note: If any of the answers above are “No”, consider what mitigations of this risk are possible.

Risk Mitigations/Comments:

Section 19.0 Electronic Signature Linking

19.1	Are the electronic signatures linked to their respective electronic records to ensure that the signatures cannot be removed, copied, cut and pasted, or transferred by ordinary means in order to falsify an alternate electronic record?	<input type="checkbox"/> Yes <input type="checkbox"/> No
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Section 19.0 Electronic Signature Linking

19.2	Are handwritten signatures applied to electronic records linked in a manner that ensures that the signature cannot be removed, copied, or transferred to falsify an alternate electronic record?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
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Note: If any of the answers above are “No”, consider what mitigations of this risk are possible.

Risk Mitigations/Comments:

Section 20.0 Biometric Electronic Signatures

20.1	Is there a process in place to ensure that electronic signatures based on biometrics can only be used by their genuine owners?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
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Note: If the answer above is “No”, consider what mitigations of this risk are possible. Ensure any biometric that may be used (e.g., fingerprints, retinal scans) are truly unique to the individual.

Risk Mitigations/Comments:

REVISION SUMMARY

1. DAIDS-OD-A-GUD-00005 rev 01, is DAIDS-OPC-A15-GUD-00006 rev 02. This procedure has been transferred from the OPC policy number to a new OD policy document number. DAIDS-OD-A-GUD-00005 is the first revision of this procedure in MasterControl. The document numbering and document format have been updated to reflect current requirements. Instructions were revised to make it optional to submit the checklist.