

**U.S. Department of Commerce  
U.S. Patent and Trademark Office**



**Privacy Impact Assessment  
for the  
Adobe Experience Manager- Managed Services (AEM-MS)**

Reviewed by: Henry J. Holcombe, Bureau Chief Privacy Officer

Concurrence of Senior Agency Official for Privacy/DOC Chief Privacy Officer  
 Non-concurrence of Senior Agency Official for Privacy/DOC Chief Privacy Officer

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Signature of Senior Agency Official for Privacy/DOC Chief Privacy Officer

Date

## **U.S. Department of Commerce Privacy Impact Assessment USPTO Adobe Experience Manager- Managed Services (AEM-MS)**

**Unique Project Identifier: EIPL-DS-10-00**

### **Introduction: System Description**

*Provide a brief description of the information system.*

Adobe Experience Manager-Managed Services (AEM-MS) is a general support enterprise service for signatures. The service provides a verifiable digital Trademark certificate to the user that they can access by clicking on the certificate details. The system is deployed as a Software as a Service (SaaS) platform with Adobe Corporation managing and maintaining infrastructure and software. The information within the system is encrypted to address security and privacy concerns. USPTO is responsible for Hardware Security Manager (HSM), which is hosted on premises and managed by the USPTO Public Key Infrastructure (PKI) team.

Address the following elements:

*(a) Whether it is a general support system, major application, or other type of system*

AEM-MS is a general support system (GSS).

*(b) System location*

AEM-MS is a SaaS system hosted in the Amazon Web Services (AWS) cloud, which is Federal Risk and Authorization Management (FedRAMP) Certified. There is a Hardware Security Module deployed on-premise at the USPTO Alexandria, Virginia Data center.

*(c) Whether it is a standalone system or interconnects with other systems (identifying and describing any other systems to which it interconnects)*

AEM-MS is interconnected to:

**Patent End to End (PE2E)** - provides examination tools for Central examination unit to track and manage the cases in this group and view documents in text format.

**Patent Capture and Application Processing System – Capture and Initial Processing (PCAPS-IP)** – provides support to the USPTO for the purposes of capturing patent applications and related metadata in electronic form; processing applications electronically; reporting patent application processing and prosecution status; and retrieving and displaying patent applications.

**Patent Business and Content Management Services (PB CMS) EventHub (EventHub)** – provides file transformation functionality for the USPTO enterprise.

**Trademark External (TM External)** – comprised of different search components: TM External Filing (EFile), Trademark Status & Document Retrieval Services (TSDR), Trademark Last Updated Service (TM-LUS), TrademarkVision (TMVision), TM Pre-Examinations Automated Batch Search (TM-PEA-ABS), and Trademark Electronic Official Gazette (TM-EOG).

*(d) The way the system operates to achieve the purpose(s) identified in Section 4*

AEM-MS is a general support service for signatures. The service provides a verifiable digital Trademark certificate to the user that they can access by clicking on the certificate details. The system is deployed as a SaaS platform with Adobe Corporation managing and maintaining infrastructure and software. The information within the system is encrypted to address security and privacy concerns. USPTO is responsible for Hardware Security Manager (HSM), which is hosted on premises and managed by the USPTO Public Key Infrastructure (PKI) team.

The integrated applications submit a document requiring signature. The system accepts the document (through Hyper Text Transfer Protocol Secure (HTTPS) Representational State Transfer (REST) based Application Programming Interfaces (APIs)) and based on the configurations and authorization the system signs the document based on the credentials that are stored in the Hardware Security Module.

*(e) How information in the system is retrieved by the user*

Users do not have access to the system. Users are not able to access any information from the system. All interactions are system to system over TLS 1.2 or higher. Only the administrators have access to system configurations.

*(f) How information is transmitted to and from the system*

All communication is between systems and/or administrative console. All communication is encrypted over TLS 1.2 higher using HTTPS protocols.

*(g) Any information sharing*

The system does not share any information with other systems.

*(h) The specific programmatic authorities (statutes or Executive Orders) for collecting, maintaining, using, and disseminating the information*

E-Government Act (Pub. L. 107-347), GPEA (44 USC 3504), GPRA (5 USC 306, 31 USC 1115 et seq), E-Sign (15 USC Chapter 96), OMB A-130, EO 13719, Establishment of the Federal Privacy Council (2016).

*(i) The Federal Information Processing Standards (FIPS) 199 security impact category for the*

*system*  
Moderate.

## **Section 1: Status of the Information System**

1.1 Indicate whether the information system is a new or existing system.

This is a new information system.  
 This is an existing information system with changes that create new privacy risks. *(Check all that apply.)*

<b>Changes That Create New Privacy Risks (CTCNPR)</b>				
a. Conversions	<input type="checkbox"/>	d. Significant Merging	<input type="checkbox"/>	g. New Interagency Uses
b. Anonymous to Non-Anonymous	<input type="checkbox"/>	e. New Public Access	<input type="checkbox"/>	h. Internal Flow or Collection
c. Significant System Management Changes	<input type="checkbox"/>	f. Commercial Sources	<input type="checkbox"/>	i. Alteration in Character of Data
j. Other changes that create new privacy risks (specify):				

This is an existing information system in which changes do not create new privacy risks, and there is not a SAOP approved Privacy Impact Assessment.  
 This is an existing information system in which changes do not create new privacy risks, and there is a SAOP approved Privacy Impact Assessment.

## **Section 2: Information in the System**

2.1 Indicate what personally identifiable information (PII)/business identifiable information (BII) is collected, maintained, or disseminated. *(Check all that apply.)*

<b>Identifying Numbers (IN)</b>				
a. Social Security*	<input type="checkbox"/>	f. Driver's License	<input type="checkbox"/>	j. Financial Account
b. Taxpayer ID	<input type="checkbox"/>	g. Passport	<input type="checkbox"/>	k. Financial Transaction
c. Employer ID	<input type="checkbox"/>	h. Alien Registration	<input type="checkbox"/>	l. Vehicle Identifier
d. Employee ID	<input type="checkbox"/>	i. Credit Card	<input type="checkbox"/>	m. Medical Record
e. File/Case ID	<input checked="" type="checkbox"/>	n. Other identifying numbers (specify): customer numbers, private case ID, PatentCenter (EFS-WEB) number, Confirmation number, application numbers, docket numbers for EFS Web.		
*Explanation for the business need to collect, maintain, or disseminate the Social Security number, including truncated form:				

<b>General Personal Data (GPD)</b>					
a. Name	<input checked="" type="checkbox"/>	h. Date of Birth	<input type="checkbox"/>	o. Financial Information	<input type="checkbox"/>
b. Maiden Name	<input type="checkbox"/>	i. Place of Birth	<input type="checkbox"/>	p. Medical Information	<input type="checkbox"/>
c. Alias	<input type="checkbox"/>	j. Home Address	<input type="checkbox"/>	q. Military Service	<input type="checkbox"/>
d. Gender	<input type="checkbox"/>	k. Telephone Number	<input type="checkbox"/>	r. Criminal Record	<input type="checkbox"/>
e. Age	<input type="checkbox"/>	l. Email Address	<input type="checkbox"/>	s. Marital Status	<input type="checkbox"/>
f. Race/Ethnicity	<input type="checkbox"/>	m. Education	<input type="checkbox"/>	t. Mother's Maiden Name	<input type="checkbox"/>
g. Citizenship	<input type="checkbox"/>	n. Religion	<input type="checkbox"/>		
u. Other general personal data (specify): Country of domicile					

<b>Work-Related Data (WRD)</b>					
a. Occupation	<input checked="" type="checkbox"/>	e. Work Email Address	<input checked="" type="checkbox"/>	i. Business Associates	<input checked="" type="checkbox"/>
b. Job Title	<input type="checkbox"/>	f. Salary	<input type="checkbox"/>	j. Proprietary or Business Information	<input checked="" type="checkbox"/>
c. Work Address	<input checked="" type="checkbox"/>	g. Work History	<input type="checkbox"/>	k. Procurement/contracting records	<input type="checkbox"/>
d. Work Telephone Number	<input checked="" type="checkbox"/>	h. Employment Performance Ratings or other Performance Information	<input type="checkbox"/>		
l. Other work-related data (specify): Organization name when applicant is an entity.					

<b>Distinguishing Features/Biometrics (DFB)</b>					
a. Fingerprints	<input type="checkbox"/>	f. Scars, Marks, Tattoos	<input type="checkbox"/>	k. Signatures	<input type="checkbox"/>
b. Palm Prints	<input type="checkbox"/>	g. Hair Color	<input type="checkbox"/>	l. Vascular Scans	<input type="checkbox"/>
c. Voice/Audio Recording	<input type="checkbox"/>	h. Eye Color	<input type="checkbox"/>	m. DNA Sample or Profile	<input type="checkbox"/>
d. Video Recording	<input type="checkbox"/>	i. Height	<input type="checkbox"/>	n. Retina/Iris Scans	<input type="checkbox"/>
e. Photographs	<input type="checkbox"/>	j. Weight	<input type="checkbox"/>	o. Dental Profile	<input type="checkbox"/>
p. Other distinguishing features/biometrics (specify): Only digital signatures, no ink based signatures will be used.					

<b>System Administration/Audit Data (SAAD)</b>					
a. User ID	<input type="checkbox"/>	c. Date/Time of Access	<input checked="" type="checkbox"/>	e. ID Files Accessed	<input type="checkbox"/>
b. IP Address	<input checked="" type="checkbox"/>	f. Queries Run	<input type="checkbox"/>	f. Contents of Files	<input checked="" type="checkbox"/>
g. Other system administration/audit data (specify): Service accounts are the accounts that will execute the request for signature.					

<b>Other Information (specify)</b>					

2.2 Indicate sources of the PII/BII in the system. *(Check all that apply.)*

<b>Directly from Individual about Whom the Information Pertains</b>					
In Person	<input type="checkbox"/>	Hard Copy: Mail/Fax	<input type="checkbox"/>	Online	<input type="checkbox"/>
Telephone	<input type="checkbox"/>	Email	<input type="checkbox"/>		
Other(specify):					

<b>Government Sources</b>					
Within the Bureau	<input checked="" type="checkbox"/>	Other DOC Bureaus	<input type="checkbox"/>	Other Federal Agencies	<input type="checkbox"/>
State, Local, Tribal	<input type="checkbox"/>	Foreign	<input type="checkbox"/>		
Other(specify):					

<b>Non-government Sources</b>					
Public Organizations	<input type="checkbox"/>	Private Sector	<input type="checkbox"/>	Commercial Data Brokers	<input type="checkbox"/>
Third Party Website or Application			<input type="checkbox"/>		
Other(specify):					

## 2.3 Describe how the accuracy of the information in the system is ensured.

The system is secured using appropriate administrative physical and technical safeguards in accordance with the National Institute of Standards and Technology (NIST) security controls (encryption, access control, and auditing), encryption at rest and in transit. Mandatory IT awareness and training are required for staff who have access to the system and address how to handle, retain, and dispose of data. All access has role-based restrictions and individuals with privileges have undergone vetting and suitability screening. The USPTO maintains an audit trail and performs random, periodic reviews (quarterly) to identify unauthorized access and changes as part of verifying the integrity of administrative account holder data and roles. Inactive accounts will be deactivated and roles will be deleted from the application.

## 2.4 Is the information covered by the Paperwork Reduction Act?

<input type="checkbox"/>	Yes, the information is covered by the Paperwork Reduction Act. Provide the OMB control number and the agency number for the collection.
<input checked="" type="checkbox"/>	No, the information is not covered by the Paperwork Reduction Act.

2.5 Indicate the technologies used that contain PII/BII in ways that have not been previously deployed. *(Check all that apply.)*

Technologies Used Containing PII/BII Not Previously Deployed (TUCPBNPD)			
Smart Cards	<input type="checkbox"/>	Biometrics	<input type="checkbox"/>
Caller-ID	<input type="checkbox"/>	Personal Identity Verification (PIV) Cards	<input type="checkbox"/>
Other(specify):			

<input checked="" type="checkbox"/>	There are not any technologies used that contain PII/BII in ways that have not been previously deployed.
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### **Section 3: System Supported Activities**

3.1 Indicate IT system supported activities which raise privacy risks/concerns. *(Check all that apply.)*

Activities			
Audio recordings	<input type="checkbox"/>	Building entry readers	<input type="checkbox"/>
Video surveillance	<input type="checkbox"/>	Electronic purchase transactions	<input type="checkbox"/>
Other(specify):	Click or tap here to enter text.		

<input checked="" type="checkbox"/>	There are not any IT system supported activities which raise privacy risks/concerns.
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### **Section 4: Purpose of the System**

4.1 Indicate why the PII/BII in the IT system is being collected, maintained, or disseminated. *(Check all that apply.)*

Purpose			
For a Computer Matching Program	<input type="checkbox"/>	For administering human resources programs	<input type="checkbox"/>
For administrative matters	<input checked="" type="checkbox"/>	To promote information sharing initiatives	<input type="checkbox"/>
For litigation	<input checked="" type="checkbox"/>	For criminal law enforcement activities	<input type="checkbox"/>
For civil enforcement activities	<input type="checkbox"/>	For intelligence activities	<input type="checkbox"/>
To improve Federal services online	<input checked="" type="checkbox"/>	For employee or customer satisfaction	<input checked="" type="checkbox"/>
For web measurement and customization technologies (single-session)	<input type="checkbox"/>	For web measurement and customization technologies (multi-session)	<input type="checkbox"/>
Other(specify):			

### **Section 5: Use of the Information**

5.1 In the context of functional areas (business processes, missions, operations, etc.) supported by the IT system, describe how the PII/BII that is collected, maintained, or disseminated will be used. Indicate if the PII/BII identified in Section 2.1 of this document is in reference to a federal employee/contractor, member of the public, foreign national, visitor or other (specify).

This PII and BII data is collected by the USPTO to apply a digital signature to facilitate granting certificates. AEM-MS does not store any data. After receiving and processing data, it is directly transmitted back to the originating system. The PII in Section 2.1 is about DOC employees and members of the public.

5.2 Describe any potential threats to privacy, such as insider threat, as a result of the bureau's/operating unit's use of the information, and controls that the bureau/operating unit has put into place to ensure that the information is handled, retained, and disposed appropriately. (For example: mandatory training for system users regarding appropriate handling of information, automatic purging of information in accordance with the retention schedule, etc.)

In the event of computer failure, insider threats, or attack against the system by adversarial or foreign entities, no PII/BII information can be exposed. Also, system users undergo annual mandatory training regarding appropriate handling of information.

NIST security controls are in place to ensure that information is handled, retained, and disposed of appropriately. For example, advanced encryption is used to secure the data both during transmission and while stored at rest. All offices adhere to the USPTO Records Management Office's Comprehensive Records Schedule or the General Records Schedule and the corresponding disposition authorities or citations.

## **Section 6: Information Sharing and Access**

6.1 Indicate with whom the bureau intends to share the PII/BII in the IT system and how the PII/BII will be shared. *(Check all that apply.)*

Recipient	How Information will be Shared		
	Case-by-Case	Bulk Transfer	Direct Access
Within the bureau	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DOC bureaus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Federal agencies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State, local, tribal gov't agencies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Private sector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Foreign governments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Foreign entities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/>	The PII/BII in the system will not be shared.
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6.2 Does the DOC bureau/operating unit place a limitation on re-dissemination of PII/BII shared with external agencies/entities?

<input type="checkbox"/>	Yes, the external agency/entity is required to verify with the DOC bureau/operating unit before re-dissemination of PII/BII.
<input type="checkbox"/>	No, the external agency/entity is not required to verify with the DOC bureau/operating unit before re-dissemination of PII/BII.
<input checked="" type="checkbox"/>	No, the bureau/operating unit does not share PII/BII with external agencies/entities.

6.3 Indicate whether the IT system connects with or receives information from any other IT systems authorized to process PII and/or BII.

<input checked="" type="checkbox"/>	<p>Yes, this IT system connects with or receives information from another IT system(s) authorized to process PII and/or BII.</p> <p>Provide the name of the IT system and describe the technical controls which prevent PII/BII leakage:</p> <p>Current systems integrated with AEM-MS are:</p> <p>EventHub PCAPS-IP PE2E</p> <p>NIST security controls are in place to ensure that information is handled, retained, and disposed of appropriately. For example, advanced encryption is used to secure the data both during transmission and while stored at rest. All offices of the USPTO adhere to the USPTO Records Management Office's Comprehensive Records Schedule that describes the types of USPTO records and their corresponding disposition authority or citation</p>
<input type="checkbox"/>	No, this IT system does not connect with or receive information from another IT system(s) authorized to process PII and/or BII.

6.4 Identify the class of users who will have access to the IT system and the PII/BII. (Check all that apply.)

Class of Users			
General Public	<input type="checkbox"/>	Government Employees	<input checked="" type="checkbox"/>
Contractors	<input checked="" type="checkbox"/>		
Other (specify):			

Users with elevated privilege have access to the configuration console. System does not collect PII/BII information.

## **Section 7: Notice and Consent**

7.1 Indicate whether individuals will be notified if their PII/BII is collected, maintained, or disseminated by the system. *(Check all that apply.)*

<input checked="" type="checkbox"/>	Yes, notice is provided pursuant to a system of records notice published in the Federal Register and discussed in Section 9.	
<input checked="" type="checkbox"/>	Yes, notice is provided by a Privacy Act statement and/or privacy policy. The Privacy Act statement and/or privacy policy can be found at: <a href="https://www.uspto.gov/privacy-policy">https://www.uspto.gov/privacy-policy</a>	
<input type="checkbox"/>	Yes, notice is provided by other means.	Specify how:
<input checked="" type="checkbox"/>	No, notice is not provided.	Specify why not: NO PII/BII information is collected. Only system to system communication is supported.

7.2 Indicate whether and how individuals have an opportunity to decline to provide PII/BII.

<input checked="" type="checkbox"/>	Yes, individuals have an opportunity to decline to provide PII/BII.	Specify how: Source System
<input checked="" type="checkbox"/>	No, individuals do not have an opportunity to decline to provide PII/BII.	Specify why not: NO PII/BII information is collected. Only system to system communication is supported.

7.3 Indicate whether and how individuals have an opportunity to consent to particular uses of their PII/BII.

<input type="checkbox"/>	Yes, individuals have an opportunity to consent to particular uses of their PII/BII.	Specify how:
<input checked="" type="checkbox"/>	No, individuals do not have an opportunity to consent to particular uses of their PII/BII.	Specify why not: NO PII/BII information is collected. Only system to system communication is supported.

7.4 Indicate whether and how individuals have an opportunity to review/update PII/BII pertaining to them.

<input type="checkbox"/>	Yes, individuals have an opportunity to review/update PII/BII pertaining to them.	Specify how:
<input checked="" type="checkbox"/>	No, individuals do not have an opportunity to review/update PII/BII pertaining to them.	Specify why not: NO PII/BII information is collected. Only system to system communication is supported.

## **Section 8: Administrative and Technological Controls**

8.1 Indicate the administrative and technological controls for the system. (*Check all that apply.*)

<input checked="" type="checkbox"/>	All users signed a confidentiality agreement or non-disclosure agreement.
<input checked="" type="checkbox"/>	All users are subject to a Code of Conduct that includes the requirement for confidentiality.
<input checked="" type="checkbox"/>	Staff (employees and contractors) received training on privacy and confidentiality policies and practices.
<input checked="" type="checkbox"/>	Access to the PII/BII is restricted to authorized personnel only.
<input checked="" type="checkbox"/>	Access to the PII/BII is being monitored, tracked, or recorded. Explanation: Audit logs
<input checked="" type="checkbox"/>	The information is secured in accordance with the Federal Information Security Modernization Act (FISMA) requirements. Provide date of most recent Assessment and Authorization (A&A): <input checked="" type="checkbox"/> This is a new system. The A&A date will be provided when the A&A package is approved.
<input checked="" type="checkbox"/>	The Federal Information Processing Standard (FIPS) 199 security impact category for this system is a moderate or higher.
<input checked="" type="checkbox"/>	NIST Special Publication (SP) 800-122 and NIST SP 800-53 Revision 4 Appendix J recommended security controls for protecting PII/BII are in place and functioning as intended; or have an approved Plan of Action and Milestones (POA&M).
<input checked="" type="checkbox"/>	A security assessment report has been reviewed for the information system and it has been determined that there are no additional privacy risks.
<input checked="" type="checkbox"/>	Contractors that have access to the system are subject to information security provisions in their contracts required by DOC policy.
<input checked="" type="checkbox"/>	Contracts with customers establish DOC ownership rights over data including PII/BII.
<input type="checkbox"/>	Acceptance of liability for exposure of PII/BII is clearly defined in agreements with customers.
<input type="checkbox"/>	Other (specify):

8.2 Provide a general description of the technologies used to protect PII/BII on the IT system. (*Include data encryption in transit and/or at rest, if applicable.*)

There are no PII/BII within the system. The SSPP specifically addresses the management, operational, and technical controls that are in place and planned during the operation of the system. The system maintains an audit trail and the appropriate personnel is alerted when there is suspicious activity. Data is encrypted in transit and at rest.

## **Section 9: Privacy Act**

9.1 Is the PII/BII searchable by a personal identifier (e.g, name or Social Security number)?

- Yes, the PII/BII is searchable by a personal identifier.
- No, the PII/BII is not searchable by a personal identifier.

9.2 Indicate whether a system of records is being created under the Privacy Act, 5 U.S.C. § 552a. (A new system of records notice (SORN) is required if the system is not covered by an existing SORN).

As per the Privacy Act of 1974, “the term ‘system of records’ means a group of any records under the control of any agency from which information is retrieved by the name of the individual or by some identifying number, symbol, or other identifying particular assigned to the individual.”

<input checked="" type="checkbox"/>	Yes, this system is covered by an existing system of records notice (SORN). Provide the SORN name, number, and link. (list all that apply):  <a href="#">COMMERCE/PAT-TM-17</a> , USPTO Security Access Control and Certificate Systems <a href="#">COMMERCE/PAT-TM-16</a> , USPTO PKI Registration and Maintenance System
<input type="checkbox"/>	Yes, a SORN has been submitted to the Department for approval on <u>(date)</u> .
<input type="checkbox"/>	No, this system is not a system of records and a SORN is not applicable.

## **Section 10: Retention of Information**

10.1 Indicate whether these records are covered by an approved records control schedule and monitored for compliance. (Check all that apply.)

<input checked="" type="checkbox"/>	There is an approved record control schedule. Provide the name of the record control schedule: N1-241-10-1-10.3 (Patent Administrative Feeder Records)
<input type="checkbox"/>	No, there is not an approved record control schedule. Provide the stage in which the project is in developing and submitting a records control schedule:
<input checked="" type="checkbox"/>	Yes, retention is monitored for compliance to the schedule.
<input type="checkbox"/>	No, retention is not monitored for compliance to the schedule. Provide explanation: All audit/log records are transferred to Splunk. System follows Splunk/Organizational retention policies.

10.2 Indicate the disposal method of the PII/BII. (Check all that apply.)

<b>Disposal</b>			
Shredding	<input type="checkbox"/>	Overwriting	<input type="checkbox"/>
Degaussing	<input type="checkbox"/>	Deleting	<input checked="" type="checkbox"/>
Other (specify): No PII/BII Data collected/stored			

## **Section 11: NIST Special Publication 800-122 PII Confidentiality Impact Level**

11.1 Indicate the potential impact that could result to the subject individuals and/or the organization if PII were inappropriately accessed, used, or disclosed. (The PII

*Confidentiality Impact Level is not the same, and does not have to be the same, as the Federal Information Processing Standards (FIPS) 199 security impact category.)*

<input checked="" type="checkbox"/>	Low – the loss of confidentiality, integrity, or availability could be expected to have a limited adverse effect on organizational operations, organizational assets, or individuals.
<input type="checkbox"/>	Moderate – the loss of confidentiality, integrity, or availability could be expected to have a serious adverse effect on organizational operations, organizational assets, or individuals.
<input type="checkbox"/>	High – the loss of confidentiality, integrity, or availability could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, or individuals.

11.2 Indicate which factors were used to determine the above PII confidentiality impact level.  
(Check all that apply.)

<input checked="" type="checkbox"/>	Identifiability	Provide explanation: Name, Occupation, Work Email Address can be used to identify an individual.
<input checked="" type="checkbox"/>	Quantity of PII	Provide explanation: Millions of data points
<input checked="" type="checkbox"/>	Data Field Sensitivity	Provide explanation: Data fields include name, etc. which alone or in combination have little relevance outside the context.
<input checked="" type="checkbox"/>	Context of Use	Provide explanation: The service provides a verifiable digital Trademark certificate to the user that they can access by clicking on the certificate details. The system is deployed as a Software as a Service (SaaS) platform with Adobe Corporation managing and maintaining infrastructure and software.
<input checked="" type="checkbox"/>	Obligation to Protect Confidentiality	Provide explanation: USPTO Privacy Policy requires the PII information collected within the system to be protected in accordance with NIST SP 800-122, Guide to Protecting the Confidentiality of Personally Identifiable Information. In accordance with the Privacy Act of 1974, PII must be protected.
<input checked="" type="checkbox"/>	Access to and Location of PII	Provide explanation: Adobe Corporation Cloud
<input type="checkbox"/>	Other:	Provide explanation:

## **Section 12: Analysis**

12.1 Identify and evaluate any potential threats to privacy that exist in light of the information collected or the sources from which the information is collected. Also, describe the choices that the bureau/operating unit made with regard to the type or quantity of information collected and the sources providing the information in order to prevent or mitigate threats to privacy. (For example: If a decision was made to collect less data, include a discussion of this decision; if it is necessary to obtain information from sources other than the individual, explain why.)

PII is collected and processed within this system. The PII in this system poses a risk if exposed. System users undergo annual mandatory training regarding appropriate handling of information. Physical access to servers is restricted to only a few authorized individuals. The servers storing the potential PII are located in a highly sensitive zone within the cloud and logical access is segregated with network firewalls and switches through an Access Control list that limits access to only a few approved and authorized accounts. USPTO monitors, in real-time, all activities and events within the servers storing the potential PII data and personnel review audit logs received on a regular bases and alert the appropriate personnel when inappropriate or unusual activity is identified.

12.2 Indicate whether the conduct of this PIA results in any required business process changes.

<input type="checkbox"/>	Yes, the conduct of this PIA results in required business process changes. Explanation:
<input checked="" type="checkbox"/>	No, the conduct of this PIA does not result in any required business process changes.

12.3 Indicate whether the conduct of this PIA results in any required technology changes.

<input type="checkbox"/>	Yes, the conduct of this PIA results in required technology changes. Explanation:
<input checked="" type="checkbox"/>	No, the conduct of this PIA does not result in any required technology changes.