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

Privacy Impact Assessment
for the
Corporate Administrative Office System (CAOS)

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

Users, Holcombe, Henry Digitally signed by Users, Holcombe, Henry
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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 Corporate Administrative Office System (CAOS)

Unique Project Identifier: PTOC-005-00

Introduction: System Description

Provide a brief description of the information system.

The Corporate Administrative Office System (CAOS) is an information system. The purpose of the CAOS is to support the Human Resources business functions within the United States Patent and Trademark Office (USPTO).

Address the following elements:

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

(b) System location
The CAOS system resides at the USPTO facilities located at 600 Dulaney Street, Alexandria, Virginia.

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

- **Enterprise Unix Services (EUS):** The Enterprise UNIX Services (EUS) is a General Support System with a purpose of providing a LINUX base hosting platform to support other information systems at USPTO. The system supports the underlying operating system, OS patching and updates, and OS level baseline compliance.
- **Enterprise Windows Servers (EWS):** The Enterprise Windows Services (EWS) is an Infrastructure information system, and provides a basic hosting platform for major applications that support various USPTO missions. Data is generally owned by the application not the platform. The USPTO facilities are leased by the General Services Administration (GSA) from LCOR, Incorporated. The facility that houses the EWS components is equipped with physical and environmental protective measures that ensure ongoing operation.
- **Information Delivery Product (IDP):** IDP is a Master System composed of the following three subsystems: 1) Enterprise Data Warehouse (EDW), 2) Electronic Library

for Financial Management System (EL4FMS), and 3) Financial Enterprise Data Management Tools (FEDMT).

- **Service Oriented Infrastructure (SOI):** SOI provides a feature-rich and stable platform upon which USPTO applications can be deployed.
- **Corporate Web Systems (CWS):** The Corporate Web System (CWS) is an n-tier application architecture that consists of www.uspto.gov, PTOWeb, RDMS, and Image Gallery. The web servers are responsible for accepting HTTP requests from web clients and passing the requests to the application servers. All hardware components and operating systems supporting the CWS are managed as part of the USPTO Enterprise UNIX Servers (EUS), Service Oriented Infrastructure (SOI), Database Services (DBS) and Network Security Infrastructure (NSI) systems. The CWS provides a feature-rich and stable platform that contains the Organization's Websites that are used at USPTO such as Intranet and USPTO external website.
- **Database Services (DBS):** The Database Services Branch (DSB) manages and maintains database management software installed on enterprise and application servers. They perform database control and administration functions associated with database operations, performance, and integrity. Support services are also provided for developing Automated Information Systems (AISs) such as requirements analysis, database design, and implementation and maintenance strategies of database applications.
- **Enterprise Software Services (ESS):** ESS is comprised of multiple on premise and in-the-cloud software services, which support the USPTO in carrying out its daily tasks. Within this system, the services are broken up into several subsystems. These subsystems are Enterprise Active Directory Services (EDS), MyUSPTO, Role Based Access Control (RBAC), Email as a Service (EaaS), Enterprise SharePoint Services (ESPS), Symantec Endpoint Protection, and PTOFAX.
- **Network and Security Infrastructure (NSI):** The NSI facilitates the communications, secure access, protective services, and network infrastructure support for all USPTO applications.
- **Security and Compliance Services (SCS):** SCS provides Security Incident and Event Management, Enterprise Forensic, Enterprise Management System, Security and Defense, Enterprise Scanner, Enterprise Cybersecurity Monitoring Operations, Performance Monitoring Tools, Dynamic Operational Support Plan, & Situational Awareness and Incident Response.

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

Web Time and Attendance Automated System (WebTA) collects and maintains USPTO employee Social Security numbers to process, personal leave balances; time and attendance information, employee related information, position description and management information.

Emergency Notification System (ENS) collects and maintains USPTO employee ID, email ID, work and home phone number, work and home address which enables the Office of Security to

provide emergency information and instructions agency-wide or to a targeted building and, when beneficial, to receive feedback through responses to the message.

Continuity of Operations Plan Work Book (COOP-WB): Individual COOP officers in the various major Offices and Business Units within USPTO supply information and requirements supporting emergency Continuity of Operations for the USPTO. COOP-WB collects the necessary staff/employee resource information such as: names, personal home number, personal cell number, and personal email.

Record Sharing Platform (RSP) application presents USPTO employee ID, log in/log out, badge in/badge out details in report format which enables the USPTO supervisors and business unit managers to verify the information that is being entered into the USPTO WebTA time reporting system.

Enterprise Telework Information System (ETIS) collects and maintains USPTO employee ID, email ID, work and home phone number, work and home address/alternative telework address for administering Telework programs

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

Web Time and Attendance Automated System (WebTA) allows USPTO time and attendance (T&A) information to be entered, verified, and electronically certified. The information is then collected for transmission to the NFC's personnel/payroll system in accordance with existing policies and procedures.

Emergency Notification System (ENS) is a network-based application that provides rapid dissemination of emergency messages to USPTO personnel through an audible alert and visual desktop popup text message. It enables the Office of Security to provide emergency information and instructions agency-wide or to a targeted building and, when beneficial, to receive feedback through responses to the message. It is a rapid and effective means of notifying the entire USPTO community (10,000+ employee workstations) in less than five minutes so they may react quickly in an emergency. This includes those working from a remote location (teleworking) as well as those on campus.

Continuity of Operations Plan Work Book (COOP- WB) is a more efficient electronic, web-based solution accessible to other COOP-WB representatives. In addition to being a simpler and less time-consuming method for Business Unit COOP-WB managers and assistants to complete and maintain their portion of the overall USPTO COOP-WB/Plan, the data contained in the work is accessible/retrievable for inclusion in reports that improve the agency's ability to reconstitute following an emergency or disaster. COOP-WB uses the COTS software from Sustainable Planner, which greatly reduces the amount of time agency continuity personnel spend completing the Business Continuity and Contingency Plan (BCCP) and workbooks, and provides reports that are vastly superior to the manual outputs possible from existing documents. USPTO should be able to rapidly generate a list of downstream impacts to/from any pinpointed failure,

whether those failures occur in an automated information system or in a particular building. This should provide critical data/information to the agency during a continuity event and could decrease the amount of time needed to return the agency to full operational status.

Record Sharing Platform (RSP) The Record Sharing Platform (RSP) is offered as a convenient tool to help you complete your timesheet; it is not used to verify time and attendance. The RSP does not display hours worked; rather, it simply displays log-in/log-out (LILO) and badge-in/badge-out (BIBO) events. Currently, supervisors do not have access to employee data.

Enterprise Telework Information System (ETIS) is an application system for the Non Patents Telework System Database that can store and maintain all information required to monitor the USPTO Telework Program. This web-based database is accessible to all Business Units (other than Patents) and offers an easy-to-update pop-up of employee information, including employee telework applications; seamless communication with HR systems; and history/version controls to track data. The Telework System Database also has filtering capabilities and easy to develop dashboard and canned reports for a system administrator. Lastly, the database has workflow management that allows for the submission of new electronic telework applications, notifications and reminders throughout the telework approval chain, and prompts of required information to complete an application or change. The information being housed contains information about teleworking employees in all Business Units outside of Patents.

(f) How information is transmitted to and from the system
The information is transmitted to and from the CAOS system using end-to-end secure transport layer protocols.

(g) Any information sharing
WebTA: The information collected is shared with NFC's automated personnel/payroll processing system.

ENS: The information collected is shared internally among agency emergency management personnel.

COOP-WB: The information collected is shared internally among agency emergency management personnel, COOP Business Unit managers/assistants, and USPTO Senior Management.

RSP: Information hosted or collected by RSP is only accessible to individual users and RSP administrators and is not shared with anyone else within USPTO or outside USPTO.

ETIS: Information hosted or collected by ETIS is only accessible to respective USPTO business units (except Patents) and its employees. The information is not shared with anyone outside USPTO.

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

5 U.S.C. 1104
General Accounting Office-03-352G, Maintaining Effective Control Over Employee Time and Attendance Reporting
5 CFR 531, Pay Under the General Schedule
5 CFR 551.101, Pay Administration Under the Fair Labor Standards Act
Telework Enhancement Act
Federal Continuity Directive-1 (FCD-1)
National Security Presidential Directive-51/Homeland Security Presidential Directive-20 (NSPD-51/HSPD-20)
Executive Order 9397.

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

CAOS: The Master System high water-mark security impact category is Moderate.
WebTA, COOP-WB, RSP, ENS and ETIS: The Sub-system security impact category is 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.)*

Changes That Create New Privacy Risks (CTCNPR)					
a. Conversions	☐	d. Significant Merging	☐	g. New Interagency Uses	☐
b. Anonymous to Non-Anonymous	☐	e. New Public Access	☐	h. Internal Flow or Collection	☐
c. Significant System Management Changes	☐	f. Commercial Sources	☐	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.)*

Identifying Numbers (IN)					
a. Social Security*	☒	f. Driver's License	☐	j. Financial Account	☒
b. Taxpayer ID	☐	g. Passport	☐	k. Financial Transaction	☐
c. Employer ID	☐	h. Alien Registration	☐	l. Vehicle Identifier	☐
d. Employee ID	☒	i. Credit Card	☐	m. Medical Record	☐
e. File/Case ID	☐				
n. Other identifying numbers (specify):					
*Explanation for the business need to collect, maintain, or disseminate the Social Security number, including truncated form: WebTA collects and maintains USPTO employee Social Security Numbers (SSN) to process personal leave balances, time and attendance (T&A) information, employee information, and position description. The T&A information are transmitted to NFC for payroll process using SSN from both WebTA and NFC for identification. There is no way to avoid future collection of SSNs. WebTA utilizes SSNs to ensure each employee is associated to a unique identifier and allows for accurate processing of payroll transactions.					

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

Work-Related Data (WRD)					
a. Occupation	☒	e. Work Email Address	☒	i. Business Associates	☐
b. Job Title	☒	f. Salary	☐	j. Proprietary or Business Information	☐
c. Work Address	☒	g. Work History	☐	k. Procurement/contracting records	☐
d. Work Telephone Number	☒	h. Employment Performance Ratings or other Performance Information	☐		
l. Other work-related data (specify):					

Distinguishing Features/Biometrics (DFB)					
a. Fingerprints	☐	f. Scars, Marks, Tattoos	☐	k. Signatures	☐
b. Palm Prints	☐	g. Hair Color	☐	l. Vascular Scans	☐
c. Voice/Audio Recording	☐	h. Eye Color	☐	m. DNA Sample or Profile	☐
d. Video Recording	☐	i. Height	☐	n. Retina/Iris Scans	☐
e. Photographs	☐	j. Weight	☐	o. Dental Profile	☐

p. Other distinguishing features/biometrics (specify):

System Administration/Audit Data (SAAD)					
a. User ID	☒	c. Date/Time of Access	☒	e. ID Files Accessed	☒
b. IP Address	☒	f. Queries Run	☒	f. Contents of Files	☒
g. Other system administration/audit data (specify):					

Other Information (specify)

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

Directly from Individual about Whom the Information Pertains					
In Person	☐	Hard Copy: Mail/Fax	☐	Online	☒
Telephone	☐	Email	☐		
Other (specify):					

Government Sources					
Within the Bureau	☒	Other DOC Bureaus	☐	Other Federal Agencies	☐
State, Local, Tribal	☐	Foreign	☐		
Other (specify):					

Non-government Sources					
Public Organizations	☐	Private Sector	☐	Commercial Data Brokers	☐
Third Party Website or Application			☐		
Other (specify):					

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

All system related generic error messages are presented to users while detailed debugging error messages are provided to administrators. Error conditions are handled so as not to provide information that could be exploited by adversaries. Access to the system is only assigned to authorized users with specific role-based restrictions, and individuals with access privileges have undergone vetting and suitability screening. Data is maintained in areas accessible only to authorized personnel. The USPTO maintains an audit trail and performs random periodic reviews to identify unauthorized access.

2.4 Is the information covered by the Paperwork Reduction Act?

☐	Yes, the information is covered by the Paperwork Reduction Act. Provide the OMB control number and the agency number for the collection.
☒	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	☐	Biometrics	☐
Caller-ID	☐	Personal Identity Verification (PIV) Cards	☐
Other (specify):			

☒	There are not any technologies used that contain PII/BII in ways that have not been previously deployed.

Section 3: System Supported Activities

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

Activities			
Audio recordings	☐	Building entry readers	☐
Video surveillance	☐	Electronic purchase transactions	☐
Other (specify):			

☒	There are not any IT system supported activities which raise privacy risks/concerns.

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	☐	For administering human resources programs	☒
For administrative matters	☒	To promote information sharing initiatives	☐
For litigation	☐	For criminal law enforcement activities	☐
For civil enforcement activities	☐	For intelligence activities	☐
To improve Federal services online	☒	For employee or customer satisfaction	☐
For web measurement and customization technologies (single-session)	☐	For web measurement and customization technologies (multi-session)	☐
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).

The PII in CAOS is about federal employees and contractors to help with administrative matters that have to do with human resources and employee satisfaction by creating platforms where employees can track their data and ask for updates as necessary.

WebTA captures employee Social Security Numbers in order to collect, validate, and electronically certify time and attendance information. This information is further collected for secure transmission over the USPTO network to the National Finance Center (NFC) for payroll processing. WebTA collects only USPTO employee information.

ENS collected information enables the Office of Security to provide emergency information and instructions agency-wide or to a targeted building and, when beneficial, to receive feedback through responses to the message. Both USPTO employee and contractor information is originally collected from those personnel at the time of onboarding.

COOP-WB information is to be used only in reporting to the COOP Manager and USPTO Senior Management, and creation of the overall USPTO COOP Workbook. COOP-WB collected information is used to support emergency Continuity of Operations for the USPTO.
Both USPTO employee and contractor information is collected from those personnel with emergency Continuity of Operations responsibilities.

RSP application uses USPTO employee ID, log in/log out, badge in/badge out details and presents it in report format which enables the USPTO supervisors and business unit managers to verify the information that is being entered into the USPTO WebTA time reporting system.

ETIS collects PII, such as name, home address, and telephone number of USPTO employees and public data, such as work ID, location, email, telephone number, etc., to file and manage telework applications.

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.)

The scope of potential threat to privacy within the CAOS system are insider threats, foreign and adversarial entities. CAOS implements security and management controls to prevent the inappropriate disclosure of sensitive information. Management controls are utilized to prevent the inappropriate disclosure of sensitive information including Annual Security Awareness Training which is mandatory for all USPTO employees. It includes training modules on understanding privacy responsibilities and procedures and other information such as defining PII and how it should be protected. Security controls are employed to ensure information is resistant to tampering, remains confidential as necessary, and is available as intended by the agency and expected by users. USPTO implements automatic purging of information, as applicable, by means of deletion and/or shredding. In addition, the Perimeter Network (NSI) and SCS provide additional automated transmission and monitoring mechanisms to ensure that PII information is protected and not breached by any outside entities.

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	☒	☒	☒
DOC bureaus	☐	☐	☐
Federal agencies	☒	☒	☐
State, local, tribal gov't agencies	☐	☐	☐
Public	☐	☐	☐
Private sector	☐	☐	☐
Foreign governments	☐	☐	☐
Foreign entities	☐	☐	☐
Other (specify):	☐	☐	☐

☐	The PII/BII in the system will not be shared.

6.2 Does the DOC bureau/operating unit place a limitation on re-dissemination of PII/BII shared with external agencies/entities?

☐	Yes, the external agency/entity is required to verify with the DOC bureau/operating unit before re-dissemination of PII/BII.
☐	No, the external agency/entity is not required to verify with the DOC bureau/operating unit before re-dissemination of PII/BII.
☒	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.

☒	Yes, this IT system connects with or receives information from another IT system(s) authorized to process PII and/or BII. Provide the name of the IT system and describe the technical controls which prevent PII/BII leakage: **WebTA** interconnects with the Department of Agriculture's National Finance Center (NFC) for payroll processing. All data transmissions require credential verification and validation of data prior to transmitting. The data passes through a dedicated interconnection (IPSec VPN tunnel) established with NFC. **ENS** information will be shared internally to the agency emergency management personnel and with USPTO Senior Management. ENS information is protected within USPTO's secure perimeter through The Network and Security Infrastructure (NSI) system. **COOP-WB** information will be shared internally to the COOP Office and with USPTO Senior Management (via reports and the overall Workbook).COOP-WB information is protected within USPTO's secure perimeter through the Network and Security Infrastructure (NSI) system. **RSP** information will be shared internally to the Human Resources management personnel and with USPTO Senior Management. R information is protected within USPTO's secure perimeter through The Network and Security Infrastructure (NSI) system. **ETIS** information will be shared internally to the ETIS management personnel and with USPTO Senior Management. ETIS information is protected within USPTO's secure perimeter through the Network and Security Infrastructure (NSI) system. All data transmissions are encrypted and requires credential verification. All data transmissions not done through dedicated lines require security certificates. Inbound transmissions as well as outbound transmissions to government agencies pass through a DMZ before being sent to endpoint servers. SSNs and Taxpayer IDs are encrypted while at rest.
☐	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	☐	Government Employees	☒
Contractors	☒		
Other (specify):			

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.)*

☒	Yes, notice is provided pursuant to a system of records notice published in the Federal Register and discussed in Section 9.	
☒	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: **CAOS:** https://www.opm.gov/forms/pdf_fill/of0306.pdf and USPTO's internal IT Privacy Policy (*for business use only*). _____.	
☐	Yes, notice is provided by other means.	Specify how:

☐	No, notice is not provided.	Specify why not:

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

☒	Yes, individuals have an opportunity to decline to provide PII/BII.	Specify how: **CAOS:** PII data is collected as part of the employment process through OMB Form 3206-0182. Applicants can decline to provide their information, however, in doing so, the agency and federal government would not be able to process their employment application. **ETIS:** In addition to PII data collected as part of the employment process, applicants are requested to provide alternate work location address and alternate work phone number. Applicants can decline to provide their information, however, in doing so, the agency and federal government would not be able to process their employment application.
☐	No, individuals do not have an opportunity to decline to provide PII/BII.	Specify why not:

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

☐	Yes, individuals have an opportunity to consent to particular uses of their PII/BII.	Specify how:
☒	No, individuals do not have an opportunity to consent to particular uses of their PII/BII.	Specify why not: PII data is collected as part of the employment process through OMB Form 3206-0182. General or routine uses of the information collected is disclosed in the Form. Applicants do not have the opportunity to provide consent for particular uses since the collection is part of the employment process.

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

☒	Yes, individuals have an opportunity to review/update PII/BII pertaining to them.	Specify how: **CAOS:** USPTO employees have the opportunity to review and update their personal information online through NFC's Employee Personal Page application or the Department of Treasury's HR Connect system. Employees may also visit the USPTO's Office of Human Resources (OHR) department for additional assistance. **ETIS:** ETIS users have the opportunity to review and update their personal information online through ETIS application.
☐	No, individuals do not have an opportunity to review/update PII/BII pertaining to them.	Specify why not:

Section 8: Administrative and Technological Controls

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

☒	All users signed a confidentiality agreement or non-disclosure agreement.
☒	All users are subject to a Code of Conduct that includes the requirement for confidentiality.
☒	Staff (employees and contractors) received training on privacy and confidentiality policies and practices.
☒	Access to the PII/BII is restricted to authorized personnel only.
☒	Access to the PII/BII is being monitored, tracked, or recorded. Explanation:
☒	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): March 4, 2022_____ ☐ This is a new system. The A&A date will be provided when the A&A package is approved.
☒	The Federal Information Processing Standard (FIPS) 199 security impact category for this system is a moderate or higher.
☒	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).
☒	A security assessment report has been reviewed for the information system and it has been determined that there are no additional privacy risks.
☒	Contractors that have access to the system are subject to information security provisions in their contracts required by DOC policy.
☐	Contracts with customers establish DOC ownership rights over data including PII/BII.
☐	Acceptance of liability for exposure of PII/BII is clearly defined in agreements with customers.
☐	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).*

In accordance with NIST 800-18 Rev. 1 and NIST 800-53 Rev. 4, the CAOS System Security and Privacy Plan (SSPP) addresses the extent to which the security controls are implemented correctly, operating as intended, and producing the desired outcome with respect to meeting the security requirements for the information system in its operational environment. The SSPP is reviewed on an annual basis. In addition, annual assessments and Continuous Monitoring reviews are conducted on the CAOS data. The USPTO Cybersecurity Assessment and Authorization Branch (CACB) conducts these assessments and reviews based on NIST SP 800-53 Revision 4, Security and Privacy Controls for Federal Information Systems and Organizations and NIST SP 800-53A Revision 4, Assessing Security and Privacy Controls in Federal Information Systems and Organizations. The results of these assessments and reviews are documented in the CAOS Security Assessment Package as part of the system's Security Authorization process.

Management Controls

USPTO uses the Life Cycle review process to ensure that management controls are in place for CAOS. During the enhancement of any component, the security controls are reviewed, re-evaluated, and updated in the SSPP. The SSPP specifically addresses the management, operational, and technical controls that are in place, and planned, during the operation of the enhanced system. Additional management controls include performing

national agency checks on all personnel, including contractor staff. Additionally, USPTO develops privacy and PII-related policies and procedures to ensure safe handling, storing, and processing of sensitive data.

Operational Controls

Automated operational controls include securing all hardware associated with the CAOS in the USPTO Data Center. The Data Center is controlled by access card entry, and is manned by a uniformed guard service to restrict access to the servers, their Operating Systems and databases. Contingency planning has been prepared for the data. Backups are performed on the processing databases. Backups are stored on tape and are secured off-site. Additional operation controls include: (1) Logical edit checks to ensure proper sequence of actions; (2) Physical terminal identification; (3) Database User ID; (4) Restricted data display, as required; and (5) Restricted access.

Manual procedures are followed for handling extracted data containing sensitive PII, which is physically transported outside of the USPTO premises. In order to remove data extracts containing sensitive PII from USPTO premises, users must:

- Maintain a centralized office log for extracted datasets that contain sensitive PII. This log must include the date the data was extracted and removed from the facilities, a description of the data extracted, the purpose of the extract, the expected date of disposal or return, and the actual date of return or deletion.
- Ensure that any extract which is no longer needed is returned to USPTO premises or securely erased, and that this activity is recorded on the log.
- Obtain management concurrence in the log, if an extract aged over 90 days is still required.
- Store all PII data extracts maintained on an USPTO laptop in the encrypted My Documents directory. This includes any sensitive PII data extracts downloaded via the USPTO Virtual Private Network (VPN).
- Encrypt and password-protect all sensitive PII data extracts maintained on a portable storage device (such as CD, memory key, flash drive, etc.). Exceptions due to technical limitations must have the approval of the Office Director and alternative protective measures must be in place prior to removal from USPTO premises.

Technical Controls

1. CAOS is secured by various USPTO infrastructure components, including the Network and Security Infrastructure (NSI) system and other OCIO established technical controls to include password authentication at the server and database levels. Web communications leverages modern encryption technology such as TLS 1.1/1.2 over HTTPS. Dedicated interconnections offer protection through IPSec VPN tunnels.

2. Also, ETIS leverages Microsoft .NET framework (CLR assembly) in SQL Server 2017 for encryption/decryption of PII data at rest. In addition, the application follows the principle of least privilege with proper user roles to ensure the users only access the information and resources that are necessary for their needs.

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."

☒	Yes, this system is covered by an existing system of records notice (SORN). Provide the SORN name, number, and link. *(list all that apply)*: COMMERCE/DEPT-25, Access Control and Identity Management System. COMMERCE/DEPT-1, Attendance, Leave, and Payroll Records of Employees and Certain Other Persons. COMMERCE/DEPT-18, Employee Personnel Files Not Covered by Notices of Other Agencies.
☐	Yes, a SORN has been submitted to the Department for approval on (date).
☐	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.)*

☒	There is an approved record control schedule. Provide the name of the record control schedule: GRS 2.4, item 030, Time and Attendance Records GRS 2.4, item 040, Agency payroll record for each pay period GRS 2.3, item 040, Telework/alternate worksite program case files GRS 5.3, item 010, Continuity planning and related emergency planning files GRS 5.3, item 020, Employee emergency contact information GRS 5.1, item 020, Non-recordkeeping copies of electronic records GRS 2.4, item 060, Payroll program administrative records; Administrative correspondence between agency and payroll processor, and system reports used for agency workload and or personnel management purposes GRS 2.4, item 061, Payroll program administrative records; Payroll system reports providing fiscal information on agency payroll GRS 5.7, item 050, Mandatory reports to external Federal entities regarding administrative matters
☐	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:
☒	Yes, retention is monitored for compliance to the schedule.
☐	No, retention is not monitored for compliance to the schedule. Provide explanation:

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

Disposal			
Shredding	☒	Overwriting	☐
Degaussing	☐	Deleting	☒
Other (specify): PII collected by COOP-WB, ETIS and ENS is disposed when it is no longer valid using above mentioned methods. The PII collected by WebTA is not disposed.			

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.)*

☐	Low – the loss of confidentiality, integrity, or availability could be expected to have a limited adverse effect on organizational operations, organizational assets, or individuals.
☐	Moderate – the loss of confidentiality, integrity, or availability could be expected to have a serious adverse effect on organizational operations, organizational assets, or individuals.
☒	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.)*

☒	Identifiability	Provide explanation: The combination of the above PII such as SSN, name, financial account etc. can readily identify a particular individual.
☒	Quantity of PII	Provide explanation: The PII stored in the system consists of all employees and contractors and is in the tens of thousands.
☒	Data Field Sensitivity	Provide explanation: The combination of the PII stored in the systems together makes the data fields more sensitive.
☒	Context of Use	Provide explanation: The data in the system is used to process personal leave balances, time and attendance information, employee information and position description.
☒	Obligation to Protect Confidentiality	Provide explanation: Based on the data collected USPTO must

		protect the PII of each individual in accordance to the Privacy Act of 1974.
☒	Access to and Location of PII	Provide explanation: Because the information containing PII must be transmitted outside of the USPTO environment, there is an added need to ensure the confidentiality of information during transmission. Necessary measures must be taken to ensure the confidentiality of information during processing, storing and transmission.
☐	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.)

The scope of potential threat to privacy is internal to USPTO. Management controls are utilized to prevent the inappropriate disclosure of sensitive information including Annual Security Awareness Training which is mandatory for all USPTO employees. It includes training modules on understanding privacy responsibilities and procedures and other information such as defining PII and how it should be protected.

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

☐	Yes, the conduct of this PIA results in required business process changes. Explanation:
☒	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.

☐	Yes, the conduct of this PIA results in required technology changes. Explanation:
☒	No, the conduct of this PIA does not result in any required technology changes.

Points of Contact and Signatures

System Owner
Name: Colleen Sheehan
Office: Office of Human Resources (OHR)
Phone: (571) 272-8246
Email: Colleen.Sheehan@uspto.gov

I certify that this PIA is an accurate representation of the security controls in place to protect PII/BII processed on this IT system.

Signature: Users, Sheehan, Colleen — Digitally signed by Users, Sheehan, Colleen Date: 2022.03.07 20:32:04 -05'00'

Date signed: _____

Chief Information Security Officer
Name: Don Watson
Office: Office of the Chief Information Officer (OCIO)
Phone: (571) 272-8130
Email: Don.Watson@uspto.gov

I certify that this PIA is an accurate representation of the security controls in place to protect PII/BII processed on this IT system.

Signature: Users, Watson, Don — Digitally signed by Users, Watson, Don Date: 2022.03.08 14:26:16 -05'00'

Date signed: _____

Privacy Act Officer
Name: Ezequiel Berdichevsky
Office: Office of General Law (O/GL)
Phone: (571) 270-1557
Email: Ezequiel.Berdichevsky@uspto.gov

I certify that the appropriate authorities and SORNs (if applicable) are cited in this PIA.

Signature: Users, Berdichevsky, Ezequiel — Digitally signed by Users, Berdichevsky, Ezequiel Date: 2022.03.02 09:45:21 -05'00'

Date signed: _____

Bureau Chief Privacy Officer and Co-Authorizing Official

Name: Henry J. Holcombe
Office: Office of the Chief Information Officer (OCIO)
Phone: (571) 272-9400
Email: Jamie.Holcombe@uspto.gov

I certify that the PII/BII processed in this IT system is necessary, this PIA ensures compliance with DOC policy to protect privacy, and the Bureau/OU Privacy Act Officer concurs with the SORNs and authorities cited.

Signature: Users, Holcombe, Henry — Digitally signed by Users, Holcombe, Henry Date: 2022.03.08 15:07:04 -05'00'

Date signed: _____

Co-Authorizing Official
Name: Frederick Steckler
Office: Office of the Chief Administrative Officer
Phone: (571) 272-9600
Email: Frederick.Steckler@uspto.gov

I certify that this PIA accurately reflects the representations made to me herein by the System Owner, the Chief Information Security Officer, and the Chief Privacy Officer regarding security controls in place to protect PII/BII in this PIA.

Signature: Users, Steckler, Frederick W. — Digitally signed by Users, Steckler, Frederick W. Date: 2022.04.04 18:10:52 -04'00'

Date signed: _____

This page is for internal routing purposes and documentation of approvals. Upon final approval, this page must be removed prior to publication of the PIA.