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



Privacy Threshold Analysis
for the
Enterprise Software Services (ESS)

# U.S. Department of Commerce Privacy Threshold Analysis USPTO Enterprise Software Services (ESS)

Unique Project Identifier: PTOI-020-00

**Introduction:** This Privacy Threshold Analysis (PTA) is a questionnaire to assist with determining if a Privacy Impact Assessment (PIA) is necessary for this IT system. This PTA is primarily based from the Office of Management and Budget (OMB) privacy guidance and the Department of Commerce (DOC) IT security/privacy policy. If questions arise or further guidance is needed in order to complete this PTA, please contact your Bureau Chief Privacy Officer (BCPO).

**Description of the information system:** Provide a brief description of the information system. The E-Government Act of 2002 defines "information system" by reference to the definition section of Title 44 of the United States Code. The

The E-Government Act of 2002 defines "information system" by reference to the definition section of Title 44 of the United States Code. The following is a summary of the definition: "Information system" means a discrete set of information resources organized for the collection, processing, maintenance, use, sharing, dissemination, or disposition of information. See: 44. U.S.C. § 3502(8).

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), Email as a Service (EaaS), Enterprise SharePoint Services (ESPS), PTO Exchange Servers (PTOES), PTOFAX, Global Enterprise Architecture Repository System (GEARS), and Adobe Experience Manager (AEM) – On Premises (OnPrem) (AEM-OnPrem).

Address the following elements:

- a) Whether it is a general support system, major application, or other type of system Enterprise Software Services (ESS) is a major application.
- b) System location ESS is located at 600 Dulany Street, Alexandria VA. 22314.
- c) Whether it is a standalone system or interconnects with other systems (identifying and describing any other systems to which it interconnects)

ESS interconnects with the following other systems:

**Network and Security Infrastructure System (NSI)** -The NSI is an Infrastructure information system, and provides an aggregate of subsystems that facilitates the communications, secure access, protective services, and network infrastructure support for all United States Patent and Trademark Office (USPTO) IT applications.

Enterprise UNIX Services (EUS) - EUS consists of assorted UNIX operating system variants (OS), each comprised of many utilities along with the master control program, the kernel.

**Service Orientated Infrastructure (SOI)** - The SOI provides a feature-rich and stable platform upon which USPTO applications can be deployed.

**Agency Administrative Support System (AASS)** - AASS consists of several applications that provide consolidation of document imaging services, enables management and tracking of hardware/software assets, and enables Under Secretary of Commerce for Intellectual Property and USPTO Director to receive and respond to a wide range of official correspondences.

Corporate Administrative Office System (CAOS) - The CAOS is an application information system composed of four Automated Information Systems (AISs) that supports all activities associated with the recruitment and management of USPTO personnel.

Consolidated Financial System (CFS) - The CFS is a Master System composed of the following subsystems: Momentum, Concur Integration, E-Acquisition (ACQ), and VendorPortal.

**Data Storage Management System (DSMS)** - DSMS is an infrastructure system that provides archival and storage capabilities securely to the USPTO. The information system is considered an essential component of USPTO's Business Continuity and Disaster Recovery program.

Enterprise Desktop Platform (EDP) - EDP is an infrastructure information system, which provides a standard enterprise-wide environment that manages desktops and laptops running on the Windows 10 operating system (OS), providing United States Government Configuration Baseline (USGCB) compliant workstations. The USGCB security mandate by the Office of Management and Budget (OMB) requires all Federal Agencies, including the United States Patent and Trademark Office (USPTO) to use the directed desktop configuration.

**Information Delivery Product (IDP)** - Information Delivery Product (IDP) is a master system that provides access to integrate USPTO data through various tools in support of not only reporting and visualizing but also analytics used in decision-making across USPTO.

**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.

Enterprise Record Management and Data Quality System (ERMDQS) – ERMDQS is Major Application (MA) consisting of two Automated Information Systems (AIS): Data Architecture Tool – Metadata (DAT-Metadata) and Records Management Tracking System (RMTS). In support of the USPTO mission, ERMDQS provides a standard-based approach to managing digital records electronically by storing metadata about a record but leaving that record in its native repository, tracking for inactive records that are being transferred to an off-site approved records center, and a metadata management solution used for creating a centralized repository of USPTO metadata information.

**Enterprise Virtual Events Services (EVES)** - The EVES is an application information system consisting of five subsystems: Cisco Telepresence (CT)/ Tandberg, WebEx (WebEx), vBrick, Adobe (ACS), and LiveStream. It enables business units to share vital knowledge through collaboration capabilities that incorporate data, voice, and video communication technologies.

**Enterprise Windows Servers (EWS)** - EWS is an Infrastructure information system, and provides a hosting platform for major applications that support various USPTO missions.

**Fee Processing Next Generation (FPNG)** - FPNG provides a modern payment system to the public and internal facing functionality that enables USPTO employees to support customers.

**Information Dissemination Support System (IDSS)** – IDSS supports the Trademark and Electronic Government Business Division, the Corporate Systems Division (CSD), the Patent Search System Division, the Office of Electronic Information Products, and the Office of Public Information Services by providing automated support for the timely search and retrieval of electronic text and images concerning patent applications and patents by USPTO internal and external users.

Intellectual Property Leadership Management System (IPLMSS) - IPLMSS is a master Automated Information System (AIS) which facilitates grouping and managing 12 general support and separate boundary AISs that collectively support the United States Patent and Trademark Office's (USPTO) Director; Deputy Director; Office of the General Counsel (OGC), including OGC's components the Office of General Law (OGL), Office of the

Solicitor, and Office of Enrollment and Discipline (OED); Trademark Trial and Appeal Board (TTAB); Patent Trial and Appeal Board (PTAB); Office of Patent Training (OPT); and Office of Policy and International Affairs (OPIA).

Microsoft Office 365 MT (O365 MT) - A line of subscription services offered by Microsoft as part of the Microsoft Office product line.

**OCIO Program Support System (OCIO-PSS)** – OCIO-PSS helps authorized USPTO personnel and contractor employees obtain the information and data needed for contract related, system requirements, test plans, test requirements, and other documents important to the OCIO-PSS personnel.

**Private Branch Exchange-Voice Over Internet Protocol (PBX-VOIP)** – The PBX-VOIP is an infrastructure information system, consisting of the Cisco VOIP, ECC and CRS that provides the following services in support of analog voice, digital voice, collaborative services and data communications for business units across the entire USPTO.

Patent Capture and Application Processing System – Examination Support (PCAPS-ES) - PCAPS-ES consists of several applications that enable patent examiners and public users to search and retrieve application data, images, patent examiners and patent applicants to identify individuals and organizations with intellectual property, pre-grant, and published applications.

Patent Capture and Application Processing System – Capture and Initial Processing (PCAPS-IP) - PCAPS-IP consists of several applications that facilitate the automated processing of patent applications.

**Patent Search System – Primary Search and Retrieval (PSS-PS) -** PSS-PS is a master system that processes, transmits and store data and images to support the data-capture and conversion requirements of the USPTO to support the USPTO patent application process.

Patent Search System – Specialized Search and Retrieval (PSS-SS) - PSS-SS is Master system which supports the Patent Cost Center. It is considered a mission critical "system". PSS-SS provides access to highly specialized data that may include annual submissions of nucleic and amino acid sequence or prior-art searching of polynucleotide and polypeptide sequences, other types of information that may be more scientific or technology-based, Patent Linguistic Utility Service (a query by example search system), Chemical Drawing ability, and Foreign Patent Data.

**Public and Enterprise Wireless LAN (PEWLAN) -** PEWLAN provides wireless internet connection for USPTO staff, contractors, and guests as a productivity enhancer. It is designed to facilitate a secure network connectivity from anywhere within USPTO's Alexandria and Shillington campuses.

**Trademark Processing System – External System (TPS-ES) -** TPS-ES is Major Application information system, and provides customer support for processing Trademark applications for USPTO.

**Trademark Processing System – Internal System (TPS-IS)** - TPS-IS consists of several applications that are used in the automated processing of trademark applications. The applications that are used to support USPTO staff through the trademark review process.

**Trade mark Next Generation (TMNG)** - The TMNG is a Major Application, and provides support for the automated processing of trademark applications for the USPTO.

**Database Services (DBS)** - DBS is an Infrastructure information system, and provides a Database Infrastructure to support the mission of USPTO database needs.

**Electronic Filing System-Web (EFS-WEB)** - EFS provides a simple, safe, and secure method for eFilers to submit documents as Portable Document Format (PDF) files over the Internet to the USPTO. Moving towards this new standard will allow all parts of the application to be submitted as PDFs on the Web would increase adoption rates and simplify processing of applications downstream.

#### d) The purpose that the system is designed to serve

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), Email as a Service (EaaS), Enterprise Share Point Services (ESPS), PTOFAX Global Enterprise Architecture Repository System (GEARS), and Adobe Experience Manager (AEM) – On Premises (OnPrem) (AEM-OnPrem).

e) The way the system operates to achieve the purpose

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), Email as a Service (EaaS), Enterprise Share Point Services (ESPS), PTOFAX, Global Enterprise Architecture Repository System (GEARS), and Adobe Experience Manager (AEM) – On Premises (OnPrem) (AEM-OnPrem).

Enterprise Directory Services (EDS) – EDS is comprised of software products that are used for identity and access management that govern users' profiles within the organization. These tools provide single sign-on access for authorized users, and serve as a standardized system that automates network management of user data, security, and distributed resources, and enables interoperation with other systems and services. User attributes such as First Name, Last Name, Middle Name and Telephone Number are populated in the system.

**Email as a Service (EaaS)** – The EaaS system is provided by Microsoft Office 365 (O365) and is FedRAMP approved. This Commercial off-the-shelf (COTS) product manages, maintains and distributes USPTO electronic mail, calendar, contacts and tasks that are on premise and/or in the cloud. Emails transmitted to and stored in the cloud leverage FIPS 140-2 compliant encryption mechanisms. EaaS does not collect any PII. However, there is a potential the usage of the service may introduce PII into the system. EaaS is not responsible for the collection and sharing of PII within the system.

Enterprise Share Point Services (ESPS) – The ESPS information system is provided by O365 Multi-Tenant & Supporting Services SaaS platform, which facilitates collaboration, provides full content management, implements business processes, and provides access to certain information that is essential to organizational goals and processes. It provides an integrated platform to plan, deploy, and manage intranet, extranet, and Internet applications across USPTO. As ESPS acts as a central repository, there is potential that ESPS may contain documents with PII or other sensitive information used by other applications and information systems throughout the organization. To the extent PII is uploaded by those other systems, they document its use and abide by USPTO policy, federal laws, executive orders, directives, policies, regulations, standards, and guidance. ESPS is not responsible for the collection and sharing of PII within the system.

**PTO Exchange Servers (PTO-ES)** – PTO-ES is an integrated system of COTS products that provides remote, secure access and data transmission for collaborative communication between USPTO resources and the internet through the use of laptops, desktops, and other mobile devices, such as Blackberry, Android and Apple devices. All communications between these devices and USPTO use FIPS 140-2 approved encryption modules. PTO-ES does not collect any PII.

**PTO Enterprise Fax System (PTOFAX)** – PTOFAX is an information system that manages and maintains all aspects of the USPTO fax services. This includes authenticating and authorizing users for fax services, receiving and sending faxes, converting electronic mail into faxes, exporting and maintaining fax records. The PTOFAX system does not collect, maintain, or disseminate any PII.

Global Enterprise Architecture Repository System (GEARS) - provides a holistic view of the USPTO enterprise and helps identify and track strategic goals, business functions, business processes, roles, organizational structures, business information, key performance metrics to technologies including software applications, services, platforms, and network infrastructure. GEARS presents views, roadmaps, and analytics of the current as-is and future to-be state of the enterprise. GEARS supports Enterprise Architecture Division which extends the enterprise interests and relationships to key partners, suppliers, and customers. GEARS is developed using a Commercial-off-the-Shelf (COTS) product called TrouxTM. The repository offered by Troux allows for a flexible foundation to store data about the agency's business objectives, capabilities, and processes, along with the business linkages to the supporting IT assets. Additionally, Troux ships with a pre-built web front end application that allows users to analyze data relationships, execute and view reports, and (if given sufficient privilege) add or update repository data. GEARS collect, maintain, or disseminate limited PII, internal names of product owners.

Adobe Experience Manager (AEM) – On Premises (OnPrem) (AEM-OnPrem) - provides electronic signature functionality for USPTO Product Lines. Provides compliance with Paper Reduction Act.

f) A general description of the type of information collected, maintained, used, or disseminated by the system

The system EDS collects user attributes such as First Name, Last Name, Middle Name and Telephone Numbers which are populated in the system.

GEARS system collects internal names of product owners.

**AEM-OnPre m** processes documents that may contain BII/PII information, but does not collect/store the BII/PII information. The system does not collect, maintain and/or disseminate any information. The documents are processed only for signature no other information is obtained and/or stored from the documents. The signature logs are generated for auditing and non-repudiation purpose.

- g) Identify individuals who have access to information on the system Government Employees and Contractors.
- h) How information in the system is retrieved by the user Information in the system is retrieved through internet access and a registered account.

AEM-OnPrem does not support user access and only allows system-to-system interactions using TLS 1.2 or higher.

*i)* How information is transmitted to and from the system

Information is transmitted to and from ESS via the internet and internal USPTO network

AEM-OnPrem does not support user access and only allows system-to-system interactions using TLS 1.2 or higher. Only the administrators have access to system configurations.

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1. 1a.		of the Information System s the status of this information	n sys	stem?				
		This is a new information system. <i>Continue to answer questions and complete certification.</i>						
		This is an existing information system with changes that create new privacy risks.  Complete chart below, continue to answer questions, and complete certification.						
		<b>Changes That Create New P</b>	rivacy	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. Continue to answer questions and complete certification.  This is an existing information system in which changes do not create new privacy risks, and there is a SAOP approved Privacy Impact Assessment. Skip questions and complete certification.						
1b.	b. Has an IT Compliance in Acquisitions Checklist been completed with the appropriate signatures?							
		Yes. This is a new information system.						
		Yes. This is an existing information system for which an amended contract is needed.						
		No. The IT Compliance in Acquisitions Checklist is not required for the acquisition of equipment for specialized Research and Development or scientific purposes that are not a National Security System.						

	$\boxtimes$	No. This is not a new information system	m.	
2.	Concer NIST Specollection those acti	IT system or its information used to supports?  ecial Publication 800-53 Revision 4, Appendix J, states "Organ and use of PII, but may nevertheless raise privacy concerns a vities and can be used to analyze the privacy risk and mitigate recordings, video surveillance, building entry readers, and electrical entry readers, and electrical entry readers.	nization nd asso such ri	is may also engage in activities that do not involve the ciated risk. The privacy controls are equally applicable to sk when necessary." Examples include, but are not limited
		Yes. (Check all that apply.)		
	A	ctivities		
		udio recordings		Building entry readers
		ideo surveillance		Electronic purchase transactions
	О	ther(specify):		
	$\boxtimes$	No.		
3.	As per D0 the Freedo privilegeo "Commer submitter	The IT system collect, maintain, or disseming the IT system collect, maintain, or disseming the privacy Policy: "For the purpose of this policy, business is of or confidential." (5 U.S.C.552(b)(4)). This information is exercial is not confined to records that reveal basic commercial of the accommercial interest" and can include information submit ough it may not be exempt from release under FOIA, is exempt	dentifia al or fir mpt fro peration itted by	ble information consists of (a) information that is defined in nancial information obtained from a person [that is] or automatic release under the (b)(4) FOIA exemption.  In all but includes any records [or information] in which the an nonprofit entity, or (b) commercial or other information
	$\boxtimes$	Yes, the IT system collects, maintains, o	r diss	seminates BII.
		No, this IT system does not collect any I	BII.	
4.	Person	nally Identifiable Information (PII)		
4a.	As per Ol	The IT system collect, maintain, or disseming MB 17-12: "The term PII refers to information that can be used with other information that is linked or linkable to a specific in the specific i	d to dis	stinguish or trace an individual's identity either alone or when
	$\boxtimes$	Yes, the IT system collects, maintains, o apply.)	r diss	seminates PII about: (Check all that
	$\boxtimes$	DOC employees		
	$\boxtimes$	Contractors working on behalf of DOC		
		Other Federal Government personnel		
		Members of the public		
		No, this IT system does not collect any I	PII.	

## If the answer is "yes" to question 4a, please respond to the following questions. 4b. Does the IT system collect, maintain, or disseminate Social Security numbers (SSNs), including truncated form? Yes, the IT system collects, maintains, or disseminates SSNs, including truncated form. Provide an explanation for the business need requiring the collection of SSNs, including truncated form. Provide the legal authority which permits the collection of SSNs, including truncated form. XNo, the IT system does not collect, maintain, or disseminate SSNs, including truncated form. 4c. Does the IT system collect, maintain, or disseminate PII other than user ID? $\times$ Yes, the IT system collects, maintains, or disseminates PII other than user ID. No, the user ID is the only PII collected, maintained, or disseminated by the IT system. 4d. Will the purpose for which the PII is collected, stored, used, processed, disclosed, or disseminated (context of use) cause the assignment of a higher PII confidentiality impact Examples of context of use include, but are not limited to, law enforcement investigations, administration of benefits, contagious disease treatments, etc. Yes, the context of use will cause the assignment of a higher PII confidentiality

If any of the answers to questions 2, 3, 4b, 4c, and/or 4d are "Yes," a Privacy Impact Assessment (PIA) must be completed for the IT system. This PTA and the SAOP approved PIA must be a part of the IT system's Assessment and Authorization Package.

No, the context of use will not cause the assignment of a higher PII confidentiality

impact level.

impact level.

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### **CERTIFICATION**

⊠ The criteria implied by one or more of the question Services (ESS) and as a consequence of this approximately documented for this IT system.	11 7
☐ The criteria implied by the questions above (ESS) and as a consequence of this non-applicable	<b>lo not apply</b> to the Enterprise Software Services ility, a PIA for this IT system is not necessary.
System Owner Name: Jimmy Orona III Office: Branch Chief – Software Services Branch 2 (I/SSB2) Phone: (571) 272-0673 Email: Jimmy.Orona@uspto.gov	Chief Information Security Officer Name: Goodwin S. Timothy Office: Office of the Chief Information Officer (OCIO) Phone: (571) 272-0653 Email: Timothy.Goodwin@uspto.gov
Signature: Users, Orona, Jimmy III 2023.06.21 10:32:52 -04'00'	Signature:
Date signed:	Date signed:
Privacy Act Officer  Name: Ezequiel Berdichevsky  Office: Office of General Law (O/GL)  Phone: (571) 270-1557  Email: Ezequiel.Berdichevsky@uspto.gov	Bure au Chief Privacy Officer and Authorizing Official Name: Henry J. Holcombe Office: Office of the Chief Information Officer (OCIO) Phone: (571) 272-9400 Email: Jamie.Holcombe@uspto.gov
Signature: Users, Berdichevsky, Digitally signed by Users, Berdichevsky, Ezequiel Date: 2023.06.27 20:48:55 -04'00'	Signature:
Date signed:	Date signed:
Co-Authorizing Official Name: N/A Office: N/A Phone: N/A Email: N/A	
Signature:	
Date signed:	