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



Privacy Threshold Analysis
for the
Patent Search System – Primary Search
& Retrieval (PSS-PS) System

U.S. Department of Commerce Privacy Threshold Analysis USPTO Patent Search System – Primary Search & Retrieval (PSS-PS)

Unique Project Identifier: PTOP-008-00

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 and its purpose: Provide a general description system (in a way that a non-technical person can understand) of the information system that addresses the following elements:

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).

- a) Whether it is a general support system, major application, or other type of system PSS-PS is a Major Application System
- b) System location600 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)

PSS-PS interconnects with the following systems:

Enterprise Windows Services (EWS): The EWS is an Infrastructure information system, and provides a hosting platform for major applications that support various USPTO missions. Enterprise UNIX Services (EUS): The EUS System consists of assorted UNIX operating system variants (OS), each of which is comprised of many utilities, along with the master control program, the kernel.

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.

Patent Capture and Application Processing System – Initial Processing (PCAPS-IP): The PCAPS-IP is an Application information system, and 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. PCAPS-IP is comprised of multiple Automated Information Systems (components) that perform specific functions, including submissions, categorization, metadata capture, and patent examiner assignment of patent applications.

Patent Capture and Application Processing System – Examination Support (PCAPS-ES): The PCAPS-ES is an Application information system composed of 20 Components: Electronic Business Center Imaging System, Electronic Desktop Application Navigator, File Inspection Utility, Image File Wrapper, Office Action Correspondence System, Patent Resource Management System, PAIR User Resource Manager, Patent Application Location Monitoring – Examination and Post-Examination, Patent Application Location Monitoring – Services Gateway, Patent Application Location Monitoring – File Ordering System, Patent Application Location Monitoring- Infrastructure, Patent Application Information Retrieval-Private, Patent Enterprise Access Integration Public Patent Application Information Retrieval – Public, Trilateral Document Access, Patent File Wrapper, Quality Review System, Supplemental Complex Repository for Examiners, Technology Assessment and Forecast, Patents Telework Enterprise System, & Integrated Quality System.

Enterprise Desktop Platform (EDP): The EDP is an infrastructure information system that provides a standard enterprise-wide environment that manages desktops and laptops running on the Windows operating system (OS), providing United States Government Configuration Baseline (USGCB) compliant workstations.

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

Enterprise Software System (ESS): Provides Enterprise Directory Services, Role-Based Access Control System, Email as a Service, PTO Exchange Services, Symantec Endpoint Protection, Enterprise SharePoint Services, etc.

Enterprise Monitoring and Security Operations (EMSO): 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.

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

Trilateral Network (TRINET): TRINET is an Infrastructure information system, and provides secure network connectivity for electronic exchange and dissemination of sensitive patent data between authenticated endpoints at the Trilateral Offices and TRINET members. The Trilateral Offices consist of the United States Patent and Trademark Office (USPTO), the European Patent Office (EPO), and the Japanese Patent Office (JPO). The TRINET members consist of the World Intellectual Property Office (WIPO), the Canadian Intellectual Property Office (CIPO), the Korean Intellectual Property Office (KIPO), the State

Intellectual Property Office of the People's Republic of China (SIPO) and the Intellectual Property Office of Australia (IPAU).

Patent End to End (PE2E): Patents End-to-End (PE2E) is a Master system portfolio consisting of next generation Patents Automated Information Systems (AIS). The goal of PE2E is to make the interaction of USPTO's users as simple and efficient as possible in order to accomplish user goals. PE2E will be a single web-based examination tool providing users with a unified and robust set of tools. PE2E will overhaul the current patents examination baseline through the development of a new system that replaces the existing tools used in the examination process.

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. DSMS consists of the following subsystems: Boyers Data Capture System, Enterprise Tape Backup System, Storage Infrastructure System.

d) The purpose that the system is designed to serve

PSS-PS supports legal determinations

of prior art for patent applications, including text and image searches of repositories of US application and grant publications, Foreign application and grant publications, various concordances, and non-patent literature. It represents the databases that contain the images and text data for US Patent Grants, Published applications, and unpublished applications. This area includes the examiner interfaces that provide the search capability through East and West.

e) The way the system operates to achieve the purpose

The PSS-PS master system has multiple AIS's with search and retrieval automation tools that support the USPTO Patent examiners legal determination of prior art of patent applications. The AIS's are:

Application Image Retrieval System (AIRS)

The purpose of AIRS is to provide patent application images and metadata to the following subsystems: Examiners Automated Search Tool (EAST), Hypertext Transfer Protocol Print Service (HPS), Order Entry Management System (OEMS) and the Web Examiner's Search Tool (WEST).

Application Images on the Web (AIW)

AIW is an internet application that runs outside the USPTO firewall and provides an access point for public users to retrieve domestic patent application images. The purpose of AIW is to provide images and metadata to the Application Full-Text (AppFT) subsystem.

The Patent Image Retrieval System (PIRS)

The purpose of PIRS is to provide Patent images and metadata to the following subsystems: EAST, HPS, OEMS, and WEST.

Patent Images on the Web (PIW)

PIW is an internet application that runs outside the USPTO firewall and provides an access point for public users to retrieve domestic Patent images. The purpose of PIW is to provide images and metadata to the Patents Full-Text (PatFT) subsystem.

Web-based Examiner's Search Tool (WEST)

WEST is a Web browser-based client interface, which utilizes HTTP as a front end to the Bibliographic Retrieval System (BRS) database system. It operates over the USPTO Transmission Control Protocol/Internet Protocol (TCP/IP) Intranet (PTONet). This intranet tool also supports text search capabilities and retrieval functions of abstracts, images, and full-text patent documents from other domestic, international, and commercial databases.

PubWEST

PubWEST is the publicly-accessible version of WEST. PubWEST, similarly to WEST, provides search access to most USPTO patent text searchable databases.

Enterprise Text Search 1 (ETS1)

The ETS1 system is a continuation of the BRS Middle-tier Phase 1 and BRS Middle-tier Phase 2 systems. ETS1 is a multi-tiered application that improves the scalability and the performance of the BRS search system while using fewer system resources.

Examiners Automated Search Tool (EAST)

A single user interface that can be used to search for prior art of any type, this application integrates with other activities performed by patent examiners to reduce the time required to examine applications. EAST provides full text and abstract text data search and retrieval of domestic and international, commercial and government databases using the BRS search engine.

Public Examiners Automated Search Tool (PubEAST)

This application is the publicly-available version of EAST. It provides search request capability for most USPTO patent text searchable databases to public users. It has full text search capabilities from the following databases: USPAT, USOCR, EPO, and JPO text/image databases.

Patent Linguistic Utility Search (PLUS)

PLUS uses the BRS query by example technology to compare keywords in a patent application to keywords in published patent applications and granted patents. Search results include matching patent and/or patent application numbers, and classification and sub-classification for patents matched, along with relevance ranking for the match.

European Patent Office Query System (EPOQUE)

EPOQUE connects to the Trilateral Secure Virtual Private Network (TSVPN), part of the USPTO Trilateral Network (TriNet), to access and allow queries from US Patent Examiners and other users to the European Patent Office (EPO) at The Hague, Netherlands.

HTTP Print Service (HPS)

HPS allows USPTO internal users and users in the public search rooms to print patent/publication application images to designated Windows-based group printers.

Applications Full-Text (AppFT)

A standalone internet application that runs outside of the USPTO firewall and provides general public access to Pre-Grant, published patent applications. It connects to the PGPub/CSS application and AIW for images.

Patent Full Text on the Web (PATFT)

A stand-alone Internet application, which allows the general public to search and retrieve granted US patents. It runs outside the USPTO firewall with a copy of the USPTO BRS database that is provided to USPTO examiners.

Classification Data System (CDS)

CDS is a collection of applications and processes which support the capture and maintenance of patent and PGPub classification data of US documents as well as the maintenance of the USPC. CDS also supports the maintenance of the US-to-IPC Concordance and Limited Family data and is the data source of several classification publications.

Computer Search Systems (CSS)

CSS is a set of databases, conversion and load software, data administration tools, and procedures to maintain and keep available a number of internal, external, government, and commercial databases for text search and retrieval via other USPTO applications.

Electronic Patent Reference (EPR)

This is a single-user, client application that is downloaded on-demand from a Patent Application Information Retrieval (PAIR) server and installed on public personal computers. It provides patent references from PIW and AIW to applicants via the Private PAIR system.

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

Published patent data.

g) Identify individuals who have access to information on the system

Public and USPTO patent examiners.

h) How information in the system is retrieved by the user

Public internet websites and internal applications.

i) How information is transmitted to and from the system

For Internal USPTO communication, transmission integrity is provided by internal access controls, firewalls, and VPN. Device management connections are protected by Secure Shell (SSH) based encrypted connections. PCAPS-ES data transmission is protected by the PTONet infrastructure.

For external connections to the DMZ, Contractor Access Zone (CAZ), and/or external networks, device management connections use SSH, PKI, and Secure ID VPN-based connections. User data connections use PKI and Secure ID VPN and SSL/TLS. Additional session-level communication protection mechanisms are not utilized within PCAPS-ES. Limited session confidentiality is provided by the PTONet Local Area Network (LAN). Only authorized USPTO systems may access the internal PTONet.

Questionnaire:

Wha	at is the status of this information	system?					
	This is a new information system. Continue to answer questions and complete certification.						
	This is an existing information system with changes that create new privacy risks. Complete chart below, continue to answer questions, and complete certification.						
	Changes That Create New Priv						
	a. Conversions b. Anonymous to Non- Anonymous	d. Signification of the New Pub		g. New Interagency Uses h. Internal Flow or Collection			
	c. Significant System Management Changes	f. Commerci	al 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 (version 01-2015). 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 (version 01-2017 or later). <i>Skip questions and complete certification.</i>						
NIST collecthose	ne IT system or its information us cerns? Special Publication 800-53 Revision 4, Appendix tion and use of PII, but may nevertheless raise pri activities and can be used to analyze the privacy r dio recordings, video surveillance, building entry	J, states "Organization vacy concerns and asso isk and mitigate such ris	s may also engage i ciated risk. The pri sk when necessary.'	in activities that do not involve the vacy controls are equally applicable to 'Examples include, but are not limited			
☐ Yes. (Check all that apply.)							
J	Activities						
ŀ	Audio recordings	<u> </u>	Building entr	y readers	Тп		
	Video surveillance			rchase transactions	+		
	Other (specify):	<u> </u>	pw		<u> </u>		
\boxtimes	No						

1.

2.

3. Does the IT system collect, maintain, or disseminate business identifiable information (BII)?

"Commercial" is not confined to records that reveal basic commercial operations" but includes any records [or information] in which the submitter has a commercial interest" and can include information submitted by a nonprofit entity, or (b) commercial or other information that, although it may not be exempt from release under FOIA, is exempt from disclosure by law (e.g., 13 U.S.C.)." \boxtimes Yes, the IT system collects, maintains, or disseminates BII. No, this IT system does not collect any BII. 4. Personally Identifiable Information (PII) 4a. Does the IT system collect, maintain, or disseminate personally identifiable information (PII)? As per OMB 17-12: "The term PII refers to information that can be used to distinguish or trace an individual's identity either alone or when combined with other information that is linked or linkable to a specific individual." \boxtimes Yes, the IT system collects, maintains, or disseminates PII about: (Check all that apply.) □ National Institute of Standards and Technology Associates ☐ Contractors working on behalf of DOC Other Federal Government personnel \square No, this IT system does not collect any 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.

As per DOC Privacy Policy: "For the purpose of this policy, business identifiable information consists of (a) information that is defined in the Freedom of Information Act (FOIA) as "trade secrets and commercial or financial information obtained from a person [that is] privileged or confidential." (5 U.S.C.552(b)(4)). This information is exempt from automatic release under the (b)(4) FOIA exemption.

	Provide	the legal authority which permits the collection of SSNs, including truncated form.			
	\boxtimes	No, the IT system does not collect, maintain, or disseminate SSNs, user ID is the only PII collected, maintained, or disseminated by the IT system.			
4c. Does the IT system collect, maintain, or disseminate PII other than user ID?					
	\boxtimes	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	dissem level?	e purpose for which the PII is collected, stored, used, processed, disclosed, or inated (context of use) cause the assignment of a higher PII confidentiality impact of context of use include, but are not limited to, law enforcement investigations, administration of benefits, contagious disease, etc.			
		Yes, the context of use will cause the assignment of a higher PII confidentiality impact level.			
	\boxtimes	No, the context of use will not cause the assignment of a higher PII confidentiality impact level.			

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 approved PIA must be a part of the IT system's Assessment and Authorization Package.

CERTIFICATION

☑ I certify the criteria implied by one or more of the questions a Search System – Primary Search & Retrieval (PSS-PS) System an applicability, I will perform and document a PIA for this IT system	nd as a consequence of this
☐ I certify the criteria implied by the questions above do not ap System – Primary Search & Retrieval (PSS-PS) System and as a capplicability, a PIA for this IT system is not necessary.	
Name of System Owner (SO):William Stryjewski	
Signature of SO:	Date:
Name of Privacy Act Officer (PAO):John (Ricou) Heaton	
Signature of PAO:	Date:
Name of Chief Information Security Officer (CISO):	1 Watson
Signature of CISO:	Date:
Name of Authorizing Official (AO) & Bureau Chief Privacy Offic	er (BCPO): <u>Henry J. Holcombe</u>
Signature of AO & BCPO:	Date:
Name of Authorizing Official (AO) or Designated Representative:	_Andrew Hirshfeld
Signature of AO:	Date: