

UNITED STATES
PATENT AND TRADEMARK OFFICE



Artificial intelligence (AI)/IT updates

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Cybersecurity

- **Last quarter**

- Established a High Value Asset (HVA) vulnerability dashboard for the product lines
- Set a critical path to transition USPTO products off end of support platforms (12/31/2021)
- Turned on warning banner header in all inbound external emails to caution USPTO recipients (phishing prevention)
- Assessed and reduced risk exposure for our publicly accessible systems

- **Next quarter**

- Complete deployment of an Endpoint Detection and Response capability across all IT assets
- Integrate a Security Orchestration, Automation, and Response capability within the Security Operation Center
- Implement a formalized Information Systems Security Officer program to improve system level security
- Accelerate move into pilot for our Zero Trust Architecture agent-based approach to protect HVAs



Resilience and Cloud

Resilience / Data Center: 3 month look-back

- Data center migration assessment, strategy and move plans Completed
- Seed equipment Contract Awarded; equipment arriving in Manassas
- Business product migration roadmap Completed
- Shutdown / Startup discussions with Product support teams ongoing

Resilience / Data Center: 3 month look-forward

- Boyers Data Center migrates to Manassas Data Center starting July 30th – August 13th
- Working through final logistics at Boyers and Manassas
- Preparing Manassas Data Center for the Alexandria Data Center Migration

Cloud: 3 month look-back

- Several (7) Cloud Migrations Completed, to include FPNG and MyUSPTO; increasing resilience & reducing our physical footprint in on-prem data centers
- Established a new Cloud Training Program & Knowledge Portal
- Published the USPTO Cloud DevOps Deployment policy
- Established a Cloud Intake Process to assess the feasibility of products migrating to the cloud

Cloud: 3 month look-forward

- (6) Products currently in the Cloud Pipeline for migration
- Cloud compliance: continue mandatory tagging of cloud assets; automation & financial transparency
- Cloud cost savings: continue right-sizing cloud resources; efficiency and lower costs

Begin removal of End of Life (EOL)/End of Support (EOS) Operating Systems

- Product Line Leads (PLLs) and Managers have received **multiple communications regarding this risk and the need to migrate** beginning in FY19, via emails meetings, and Agile Delivery Office Office Hours.
- PLLs and Lead Product Owners (LPOs) have been **provided detailed information regarding the End of Support for Windows Server Platforms** containing Product Line specific spreadsheets with EOL/EOS Windows Servers
- LPOs should work with PLLs and Product Line Managers to **plan and execute the removal of ALL Windows 2003 & 2008 servers prior to 12/31/2021** - *(Windows 2003 & 2008 are priority)*

DOCX filing

- Non-DOCX filing surcharge goes into effect January 1, 2022
- The USPTO recently issued a Federal Register Notice adopting submitted DOCX files as the authoritative document
- Resources to assist with shift to DOCX filing
 - DOCX focused training sessions continue to be offered twice per week
 - More than 10,500 users have been trained on filing in Patent Center
 - Patent Center has a Training Mode to practice filing DOCX documents
- Multiple sections (specifications, claims, abstracts, and drawings) in a single document may now be filed in Patent Center in DOCX format
- Real-time content validations are only available with DOCX filing



Patents artificial intelligence tools

AI for Search: 3 month look-back

- Completed build and test of “More Like This” capability
- “More Like This” retrieves most similar documents based on examiner selection

AI for Search: 3 month look-forward

- Release “More Like This” to full examining corps
- Continue data collection for value determination within AI Prototype
- Identify additional AI capabilities in prototype that demonstrate value for future release to examiners

Auto-classification: 3 month look-back

Auto-C* assignment:

- Implemented in December 2020
- Continued monitoring of C* assignment quality

Full auto-classification:

- Updated model to include symbol selection thresholds to output number of symbols in alignment with historical trends

Auto-classification: 3 month look-forward

Auto-C* assignment:

- Complete assessment to determine readiness for expanded use of system

Full auto-classification:

- Assess output from updated models to determine readiness for piloting

Questions and comments

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