

**UNITED STATES  
PATENT AND TRADEMARK OFFICE**

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# Patent Public Advisory Committee Quarterly Meeting

## IT Update

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UNITED STATES  
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# Major PE2E Examination Products

Effort	Description	Release Date
<b>Docket &amp; Application Viewer (DAV)*</b> in Examination Tools & Infrastructure (ET&I) project (replaces eDan)	Case management tool: docket with multiple views; planner to prioritize work; document, claims, application management; IDS viewer, electronic notes	<b>Released Mar 2015</b> training underway (key dates on next slide)
<b>Official Correspondence</b> (Office Actions/replaces OACS)	Authoring & workflow solution; integrates with DAV by leveraging notes, references, & dispositions	Production release target Dec 2016 Pilot release Dec 2015
<b>Examiner Search</b> (replaces EAST/WEST)	Modern, scalable enterprise search for Patent Examiners	Production release target Dec 2016 Pilot release Dec 2015
<b>Cooperative Patent Classification (CPC)</b>	Harmonization & modernization of classification jointly managed between USPTO & EPO. Facilitates collaborative maintenance of classification system	Released Jan 2013 Enhancements release July 2015
<b>Central Enterprise Data Repository (CEDR)</b>	Create new operational database to replace PALM that supports PE2E	Incremental releases for critical path items from above efforts

\* Docket & Application Viewer is the product created by the Examiner Tools & Infrastructure project

# Deployed DAV (ETI) v2.0 to Corps Mar 2015

New interface for patent examination offering many advantages and new capabilities

- User interface is customizable and flexible
- Access to Examiners' docket
- Structured text for specifications, claims and abstracts
- Searches for text-based documents
- Provides tool for text comparison of two sets of claims
- Notes can be added and highlighted at the docket and application level
- Developed using Agile/DevOps with strong collaboration between the Patent Corps/POPA/OCIO
- Replaced ancient hardware and software with new 21<sup>st</sup> century technologies

# Key Dates for DAV (ET&I)

**Jan 2011** 3 user interface prototypes presented to Examiners; 2,000+ examiners provided evaluations

**Jun 2011** Agile development began based on User Centered Design, using info from prototype evaluation

**Sep 2011** First version released to Central Reexamination Unit

**Aug 2012** Changed audience to Examiner Corps; data from Patent Application Text Initiative; new scope & timeline

**Apr 2013** Major development on PE2E stopped due to funding issues; 18-24 month projected delay

**Oct 2013** Ramp-up began for resuming major PE2E development; initial release target Q1 FY15

**Jul 2014** Full resumption Examiner Tools & Infrastructure (ET&I) development; release re-targeted for Q2 FY15

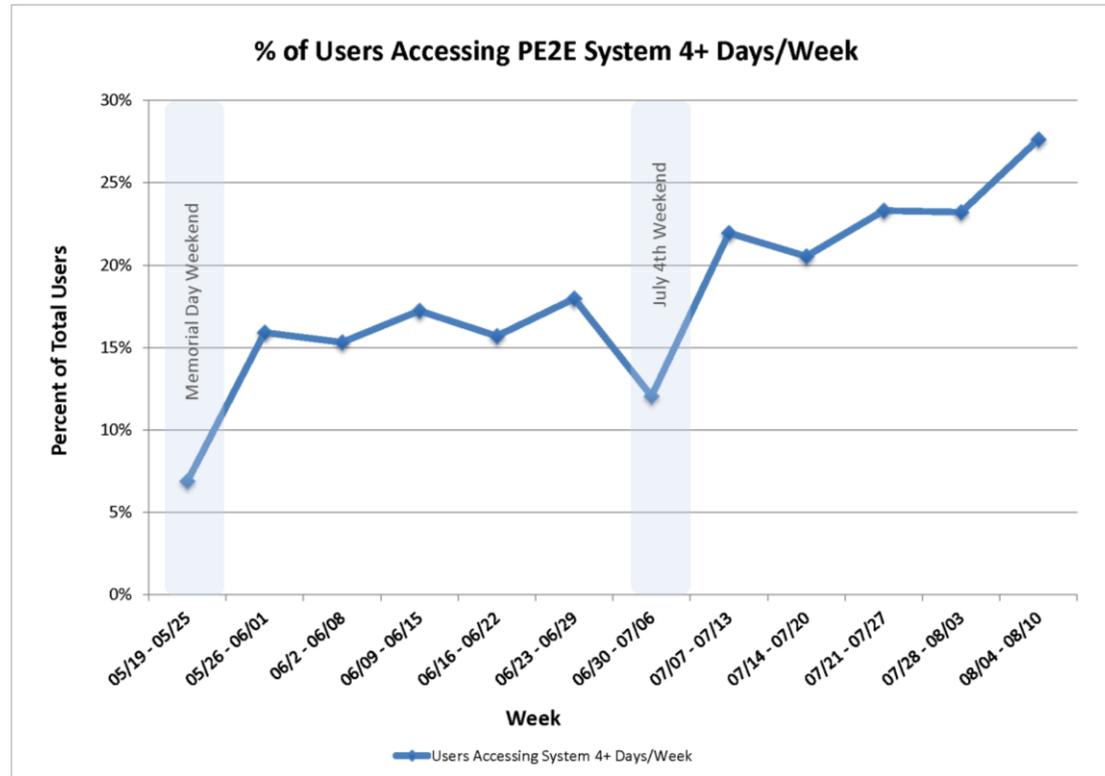
**Mar 2015** Released DAV (ET&I) to the Patent Examiner Corps

**Apr 2015** Training began with close coordination with POPA

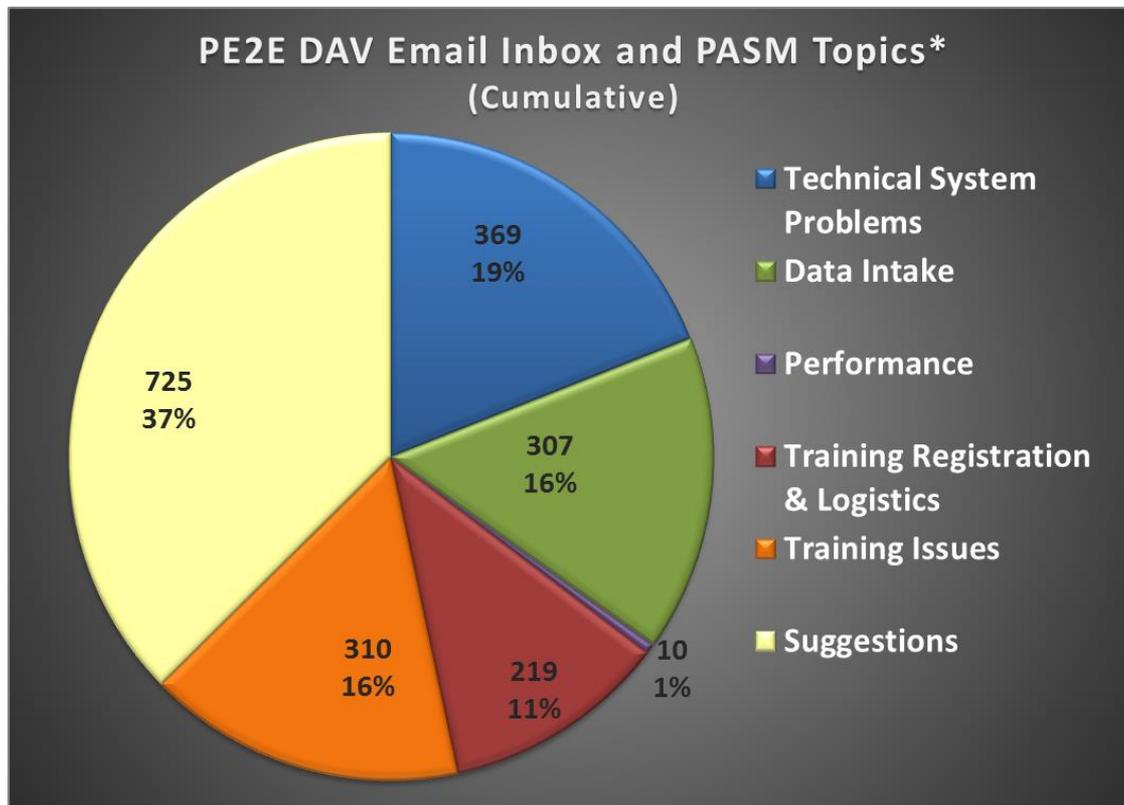
**Aug 2015** Training will complete



# DAV Usage Data over Time



# DAV User Support Issues



# PE2E Additional Key Releases

## Examiner Search

Robust and versatile enterprise search system for Patent Examiners

### Status

- Apr 2015: Development resumed on existing UI and technology based on same software used in GPSN and Assignments on the Web
- Apr 2015: Completed study on USPTO approach; validated current toolset
- Sep 2015: Migrate search collections into testing/production environments (USPat, PGPub, IBM\_TDB, USOCR, EPO, JPO, FPRS, Derwent), totaling approx 60TB of images & text

### Next Steps:

- Work toward first pilot release in Q1 FY16, including defects and additional collections
- Release to the Examination Corps Q1 FY17, with legacy feature parity and all collections

# PE2E Additional Key Releases

## Official Correspondence (Office Actions)

Authoring and workflow solution that integrates with DAV by leveraging notes, references, and dispositions

### Status

- Apr 2015: Completed 1<sup>st</sup> workflow prototype
- Apr 2015: Completed selection & validation of toolset, including MS Word 2013 based authoring tool

### Next Steps:

- Work toward first pilot release in September 2015
- Release to the Examination Corps December 2016

# PE2E Additional Key Releases

## Patents Content Management Solution (CMS)

Consolidate multiple content repositories into single, modern, highly available solution to reduce duplication & support distributed deployment to decrease downtime

**Status:** After technology choice delays, efforts now resumed with Cassandra & IBM GPFS

- Oct 2014: Completed code for migrating IFW data to the new CMS. Successfully tested migration of approx 4TB of IFW images into the new CMS non-production environment
- Oct 2015: Approx 60TB of all IFW data will be available to the Patent Corps in the CMS
- Dec 2015: All IFW data will be available to the Patent Corps in the CMS (approx 120 TB)

## Next Steps:

- Re-scope to ensure roadmap supports deployment of Search solution
- Support migration of data from legacy repositories



# PE2E Additional Key Releases

## **PATI Data**

Converts images to structured text (XML) that Examiners can use with analytical tools

## **Status**

- Jun 2015: Approx 164M pages of Claims, Specifications, Abstracts, Remarks, Information Disclosure Statements, Petitions, and Briefings have been converted from image and are available to the Examiners in structured text

# PE2E Additional Key Releases

## **Global Dossier – Public Access to Foreign Application Dossiers (GD-PAD)**

Provide published US application dossier documents via web services for consumption by foreign IP Offices and a public-facing USPTO website to access foreign IP Office application documents.

### **Status:**

- Jun 2015: Enabled web services delivering published US application dossier documents on the Internet for consumption by authorized IP5 Office public web pages without impacting examiner access to same

### **Next Steps:**

- Nov 2015: Launch USPTO Web Pages that offer IP community access to foreign IP Office published application documents



# PE2E Additional Key Releases

## CPC Database – Phase 3

Enhance the Classification Allocation Tool (CAT) to support CPC Reclassification projects and create RESTful style classification web services for use by external legacy applications (replacing CDS services), and Next Gen applications - DAV and Enterprise Search Tools (EST)

### Status:

- Jul 2015: Classification Picture and Re-Class Project Manager Tool enhancements for Patent Examiners and Quality Nominee Directory management for authorized users.

### Next Steps:

- Oct 2015: Provide a USPC to CPC cross-walk to assist examiners, cross-checking of CPC allocations assigned by contractors, and a CAT-style user interface for the Production Data Control System (PDCS).



# PE2E Additional Key Releases

## CPC IP Office Collaboration Tools

Work with EPO to select and adapt web-based collaboration tools plus make required network and/or application changes. Provide examiners a message board-like environment to discuss classification issues and recommend revision projects.

### Status:

- Aug 2015: Create a shared development environment with the EPO and deliver a Scheme Navigator tool to support reclassification and revision activities.

### Next Steps:

- Nov 2015: Provide a Test Collection tool for proposing a new section of the CPC classification scheme and populating it with test symbols. Provide a federated identity management solution for USPTO and EPO.



# Deployed Assignment Search Dec 2014

New interface for assignment searching offering many advantages and new capabilities

- Available to public at <http://assignment.uspto.gov/>
- User interface is updated and consistent with other new USPTO tools
- Expanded searchable fields
  - Correspondent Name and Address
  - Assignee Address
  - Invention Title
- Expanded search functionality
  - Searchable by multiple fields simultaneously
  - Filterable search results
  - Wildcards & Boolean searching
  - Fuzzy searching (e.g., "X.Y.Z.", "XYZ", "XYZ Inc", etc.)

# Assignment Search Additional Key Releases

## Assignment Search

New assignment search tool offering expanded search functionality

### Status

- Dec 2014: Initial deployment
- Jan 2015: Tooltip and FAQ updates and some bug fixes
- Fall 2015: Quick lookup of property numbers and Reel/Frame numbers, assignment document images, exporting of data and additional User Interface and printing improvements
- Late 2015: Trademark assignments

# Other Accomplishments & Key Releases

**Hague Agreement (HA)** is an international registration system which offers the possibility of obtaining protection for industrial designs in a number of member countries and intergovernmental organizations by means of a single international application.

- **Completed:**
  - May 2015
    - Hague Implementation went active on May 13, 2015
    - First Applications have already been routed via Hague Agreement
    - Deployment & activation of dependent systems (EFS Web, EAI Hub, PALM Expo, SCORE, eDan, PALM SG, PALM Pre-exam)
- **Planned:**
  - August 2015
    - EFS Web and PALM ExPO will deploy a web based 85B form
    - This impact WFS Web and PALM ExPO only
    - Deployment of testing environments is on schedule
    - This deployment is to occur on 8/30/15

# Other Accomplishments & Key Releases

## America Invents Act (AIA)

AIA transitions U.S. from first-to-invent system to first-inventor-to-file systems which impacts daily examination process.

- **Completed:**
  - May 2015: eDAN, PALM Pre-Exam and PALM SG releases
- **Planned:**
  - November 2015: EFS-Web, PALM Pre-Exam (follow-up), and SCORE releases

# Plans for Future Work – PALM Replacement

## Patent Application Lifecycle Management Replacement (PALM-R)

PALM is the core Patents operational database and supporting applications. It supports prosecution, tracking and monitoring of both Patents and Patent Cooperation Treaty (PCT) application through their end-to-end life cycle.

- Replacement of PALM services will begin under Legacy Portfolio to compliment PE2E deployments of DAV, Search and Office Action Authoring Tools.
- Replacement of PALM will transition into PE2E Portfolio for Data and User Interface Development.
- Investment was approved by the ITIRB/CRB on July 22, 2015.

# Questions and Comments

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