



# Technical Platforms for Work Sharing

Tokyo  
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Director, Infrastructure Modernization Division

# Overview

- Requirements of work-sharing initiatives
- WIPO's current approach in secure data exchange  
(key component of work sharing platform)
- WIPO CASE Overview
- Global Dossier Concept

# Requirements of Work-Sharing Initiatives

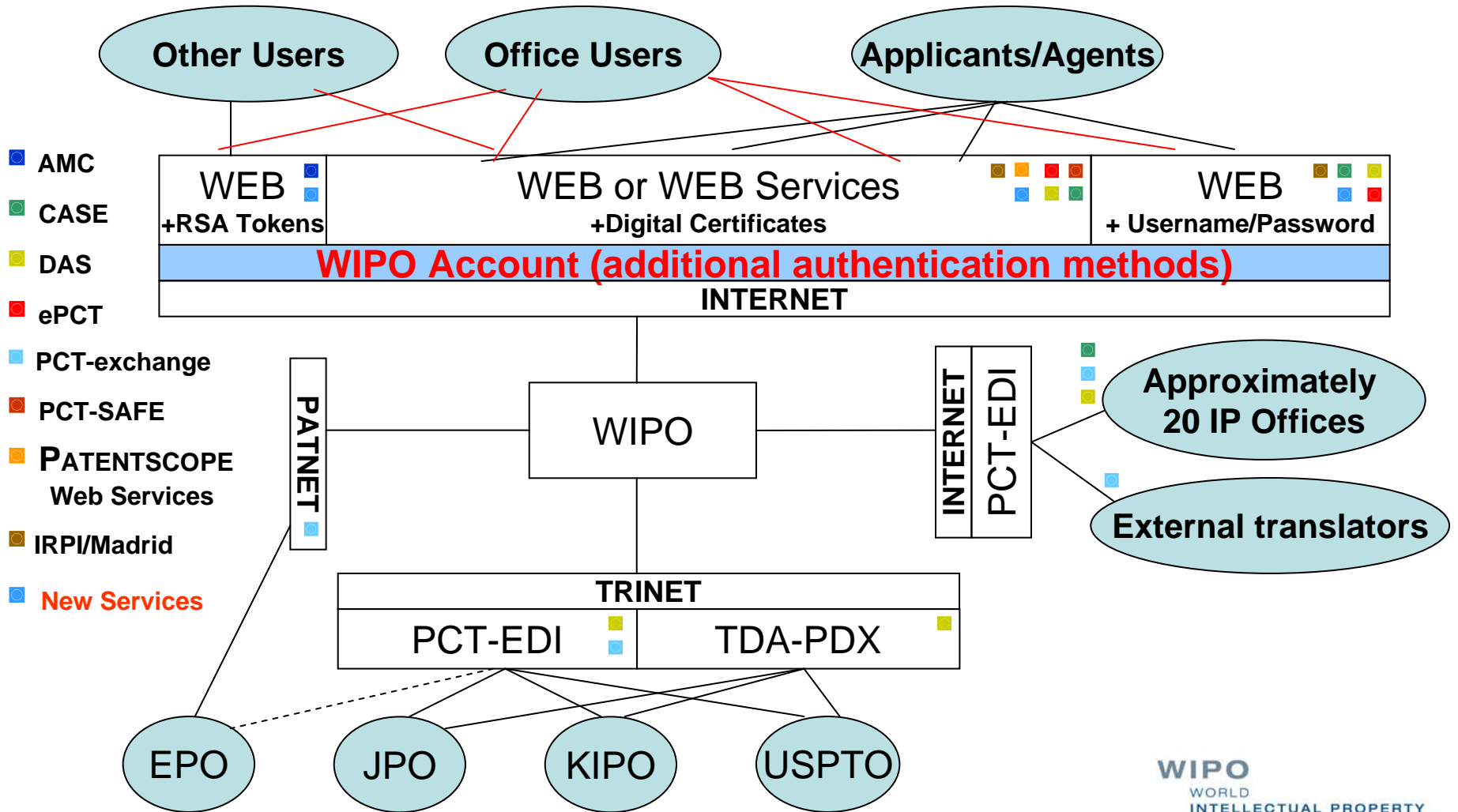
Lessons learned (from Vancouver Group and others):

- Patent family register is essential
- Citation data is important
- Need to support different technical systems in different offices
- Some offices have difficulty supplying data and documents
- Some offices are consumers of information, not producers of information
- Notification services needed
- Language issues

# Requirements of Work-Sharing Initiatives

- Secure data exchange mechanisms
- Confidential documents shared between all offices in a group
- Simple security model  
(no applicant authorization required)
- Search facilities – by application number, patent family and other criteria
- Tools to support patent examination workflow
- Need to support external partners (e.g. outsourcing)
- Public access to some data and documents

# What WIPO Has Done in Secure Data Exchange



# WIPO CASE Overview

- WIPO CASE = a working prototype for future work-sharing platforms.
- A unique platform allowing sharing of data and documents between offices (initially Vancouver Group)

# Vancouver Group Initiative

WIPO System Interaction Centralised Access to Search and Examination Documents

## Scenario 1

IP Office sends documents to WIPO



IP Office

Upload



WIPO hosts documents on CASE

← Query →

← Response →



Examiner

## Scenario 2

IP Office hosts documents. IP Office Digital Library provides documents on demand via WIPO



IP Office

Digital Library

← Query →

← Response →

CASE System



WIPO system retrieves documents on demand

← Query →

← Response →



Examiner

# WIPO CASE 1.0 Overview

- Live production on March 1, 2011
- Batch uploading of confidential patent search and examination documents and published bibliographic data
- Centralized database and infrastructure administered by WIPO
- Distributed Web access by participating Offices only (by application or priority number)
- Link to PATENTSCOPE



# WIPO CASE 2.0 Overview

- Live production on May 21, 2012
- Office group document security
- Patent family search based on a centralized index (priority application and application numbers)
- Office Administrator Access
- Application and document usage statistics
- Integration with WIPO Account System

# WIPO CASE 2.1



- Live production in June 2012
- Patent citations and citation history
- Web services access to Offices' digital libraries
- Ongoing patent family member data loading based on national and PCT collections

# WIPO CASE 2.1 - Login page

## WIPO - Centralised Access to Search and Examination

WIPO CASE provides centralised access to Search and Examination documents of participating Offices.

Access to this service will be granted automatically when your account is activated.

<p> <b>Office Administrator Login</b></p> <p>Office Administrator Login enables access to report functions in addition to search and document view/download functions.</p> <p>Additional authentication is required by uploading a digital certificate to your user account.</p> <p><a href="#">Create an account</a></p> <p><a href="#">Obtain/Upload a certificate</a></p> <p><a href="#">Administrator Access</a> (certified account holders only)</p>	<p> <b>Office User Login</b></p> <p>Office User Login enables access to search and document view/download functions.</p> <p><a href="#">Create an account</a></p> <p><a href="#">Office User Access</a></p>
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Supported browsers: Mozilla Firefox 3.6+, Internet Explorer 7+  
The system may not work correctly with other browsers and we will not be able to give assistance in these cases.

[Terms of use](#)

# WIPO CASE 2.1 – Examiner Landing Page

## WIPO-CASE

### SEARCH

▶ Patent Family

### PREFERENCES

▶ Notification List

## Patent Family

Search Type  Simple  Extended

Application No.

Search

Reset

# WIPO CASE 2.1 – Access by Application Number

**WIPO-CASE**

**SEARCH**

▶ Patent Family

**PREFERENCES**

▶ Notification List

## Patent Family

Search Type  Simple  Extended

Application No.

APPLICATION NO ⇅	PUBLICATION NO ⇅	FILING DATE ⇅
AU2009264565	AU2009264565	25 Jun 2009

# WIPO CASE 2.1 - Application Content View

← (GB1205569.5) A heat exchanger, methods therefor and a nuclear fission reactor system

## WIPO-CASE

### SEARCH

▶ Patent Family

### PREFERENCES

▶ Notification List

Biblio. Data	Documents	History	
Publication Number	GB2485752	Application Number	GB1205569.5
Publication Date	23-05-2012	Filing Date	22-09-2010
IPC Classification information	<i>G21C 15/247</i> (2006.01) <i>G21C 1/03</i> (2006.01) <i>G21C 1/32</i> (2006.01)		
Applicant(s)	Searete LLC; (GB)		
Inventor(s)			
Priority details	12586741 25-09-2009 US 12653653 15-12-2009 US 12653656 15-12-2009 US		
Title	<b>(EN)</b> A heat exchanger, methods therefor and a nuclear fission reactor system		
Abstract			
PCT Publication Number	WO2011/078872	PCT Application Number	PCT/US2010/002604
PCT Publication Date	30-06-2011	PCT Filing Date	22-09-2010
Office of Authorship	GB	Language	EN

# WIPO CASE 2.1 – Link to PATENTSCOPE

← (GB1205569.5) A heat exchanger, methods therefor and a nuclear fission reactor system

WIPO-CASE

SEARCH

▶ Patent Family

PREFERENCES

▶ Notification List

Biblio. Data		Documents	History
Publication Number	GB2485752	Application Number	GB1205569.5
Publication Date	23-05-2012	Filing Date	22-09-2010
IPC Classification information	<b>G21C 15/247</b> (2006.01) <b>G21C 1/03</b> (2006.01) <b>G21C 1/32</b> (2006.01)		
Applicant(s)	Searete LLC: (GB)		

US2010002604 A HEAT EXCHANGER, METHODS THEREFOR AND A NUCLEAR FISSION REACTOR SYSTEM - Microsoft Internet Explorer

WIPO PATENTSCOPE  
Search International and National Patent Collections

WORLD INTELLECTUAL PROPERTY ORGANIZATION

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Home > IP Services > PATENTSCOPE  
1. (WO2011078872) A HEAT EXCHANGER, METHODS THEREFOR AND A NUCLEAR FISSION REACTOR SYSTEM

PCT Biblio. Data | Description | Claims | National Phase | Notices | Documents

International Application Status				
Date	Title	View	Download	
24.05.2012	International Application Status Report	HTML, PDF	PDF, XML	

Published International Application				
Date	Title	View	Download	
30.06.2011	Initial Publication without ISR (A2 26/2011)	PDF (121p.)	PDF (121p.), ZIP(XML + TIFFs)	
18.08.2011	Later publication of international search report (A3 33/2011)	PDF (2p.)	PDF (2p.), ZIP(XML + TIFFs)	

Related Documents on file at the international Bureau				
Date	Title	View	Download	
27.03.2012	Notification of Transmittal of Copies of International Preliminary Report on Patentability Chapter I (IB/326)	PDF (1p.)	PDF (1p.), ZIP(XML + TIFFs)	
27.03.2012	International Preliminary Report on Patentability Chapter I (IB/373)	PDF (7p.)	PDF (7p.), ZIP(XML + TIFFs)	

nuclear fission reactor system

Publication Number PCT/US2010/002604

Date 22-09-2010

EN

# WIPO CASE 2.1 – Document View

← (AU2004241949) Disease prevention and vaccination prior to thymic reactivations






**WIPO-CASE**

**SEARCH**

▶ Patent Family

**PREFERENCES**

▶ Notification List

Biblio. Data		Documents	History		
DATE	DOCUMENT	VIEW	DOWNLOAD	 <input type="checkbox"/>	
26 Sep 2008	Examination Report.pdf			<input type="checkbox"/>	
25 Sep 2008	Search Information Statement.pdf			<input type="checkbox"/>	



# WIPO CASE 2.1 – Watch List

## WIPO-CASE

### SEARCH

▶ Patent Family

### PREFERENCES

▶ Notification List

## Notification List

Application Number:   Include Family

Add Notification

Update Changes

Remove Notification

SELECT	APPLICATION	INCLUDE FAMILY
<input type="checkbox"/>	GB1001689.7	<input checked="" type="checkbox"/>

# WIPO CASE 2.1 – Extended Patent Family Search

## WIPO-CASE

### SEARCH

▶ Patent Family

### PREFERENCES

▶ Notification List

## Patent Family

Search Type  Simple  Extended

Application No.

Search

Reset

Application Number:

Add Application

Display Tree

PRIORITY NO ↕	APPLICATION NO ↕	PUBLICATION NO ↕	FILING DATE ↕
US12586741	GB1205569.5	GB2485752	22 Sep 2010
US12653653	GB1205569.5	GB2485752	22 Sep 2010
US12653656	GB1205569.5	GB2485752	22 Sep 2010
US12586741	GB1205571.1	GB2485753	22 Sep 2010
US12653653	GB1205571.1	GB2485753	22 Sep 2010
US12653656	GB1205571.1	GB2485753	22 Sep 2010
US12586741	GB1205572.9	GB2485754	22 Sep 2010
US12653653	GB1205572.9	GB2485754	22 Sep 2010
US12653656	GB1205572.9	GB2485754	22 Sep 2010

\* - Indicates a manually added application.

# WIPO CASE 2.1 – Extended Patent Family Search/Family Tree

CASE - Centralised Access to Search and Examination - Microsoft Internet Explorer

https://pct.wipo.int/case/en/services/extendedFamilySearch

CASE - Centralised Access to Search and Examination

**WIPO Online Services**  
WORLD INTELLECTUAL PROPERTY ORGANIZATION

**WIPO-CASE**

**Patent Family**

SEARCH  
 Simple  Extended

PREFERENCES  
 Notification List

Application No.

Application Number:

PRIORITY NO	APPLICATION NO
US10/748,831	AU2004232058
US60/464,019	AU2004232058
US10/419,039	AU2004233019
US10/749,119	AU2004233019
US60/527,001	AU2004233019
US10/418,727	AU2004241949
US10/418,747	AU2004241949
US10/419,066	AU2004241949
US10/419,068	AU2004241949
US10/748,450	AU2004241949

\* - Indicates a manually added application.

# WIPO CASE 2.1: patent citations

The screenshot displays the WIPO IP Services interface in two browser windows. The left window shows the search results for a patent family, and the right window shows a citation network diagram.

**WIPO - World Intellectual Property Organization - Microsoft Internet Explorer**  
 https://pctdemo.wipo.int/case/en/services/extendedFamilySearch

**WIPO IP SERVICES**

**Patent Family**

Search Type:  Simple  Extended

Application No.: AU2009264565

Application Number:

Family Members Citations

NUMBER
<a href="#">AU2009264565</a>
US61/075,892
US61/075,697
US61/133,212
US61/155,041
<a href="#">AU2009264566</a>
US61/075,892
<a href="#">AU2009264567</a>
CH832/09
US61/075,892
US61/075,697
US61/155,041
US61/155,105
<a href="#">AU2009264564</a>
US61/075,640
US61/075,892
US61/075,897
US61/075,956
US61/155,041

\* - Indicates a manually added application.

**WIPO IP SERVICES**

**Citation Network Diagram:**

```

  graph TD
    US61_075_956[US61/075,956  
26/06/2008] --> AU2009264567
    US61_133_212[US61/133,212  
25/06/2008] --> AU2009264567
    CH832_09[CH832/09  
02/06/2009] --> AU2009264567
    US61_155_105[US61/155,105  
24/02/2009] --> AU2009264567
    AU2009264567 --> AU2009264565
    AU2009264565 --> AU2009264566
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25/06/2008] --> AU2009264564
    AU2009264564 --> AU2009264566
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24/02/2009] --> AU2009264565
    US61_075_640[US61/075,640  
25/06/2008] --> AU2009264565
    US61_075_692[US61/075,692  
25/06/2008] --> AU2009264565
  
```

# WIPO CASE 2.1: patent citations

## WIPO-CASE

### SEARCH

▶ Patent Family

### PREFERENCES

▶ Notification List  
▶ Document Security

### REPORT

▶ Pre-Defined

## Patent Family

Search Type  Simple  Extended





Application No.

Search

Reset

Sort: Application No. - ASC

Applications Citations

CITATION	CATEGORY	CITATION STATUS	APPLICATION
DE10345154 A1 (DENSO CORP [JP]) - 22 April 2004, Page 3, paragraph 19 Figure 1 	A	Raised	AU2010214100
US4501246 A (BOSCH GMBH ROBERT [DE]) - 26 February 1985, Column 2, line 22 - column 2, line 23, Figure 1 	X	Raised	CA2542010
JP2004011448 A (NIPPON SOKEN, et al) - 15 January 2004 	X	Overcome-Amendment	CA2542010
EP0270720 A1 (RENAULT [FR]) - 15 June 1988, Page 5, line 12 - page 6, line 5, Figure 1, 6 	X	Overcome-Amendment	CA2542010

# Global Dossier Concept

# Global Dossier Concept

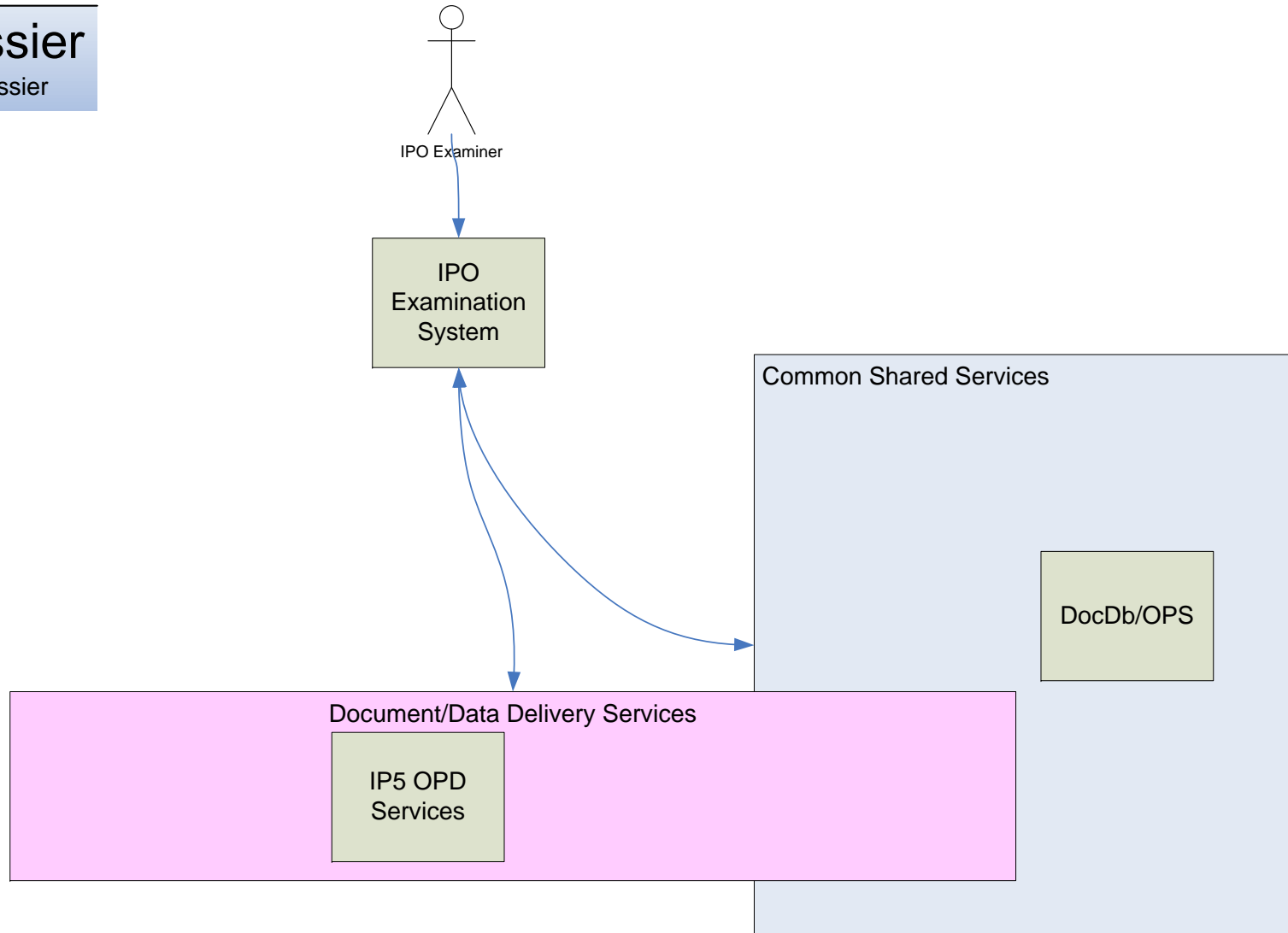
## Requirements:

- Current IP5 offices exchange information using web services (OPD) with a centralized patent family service (DocDB/OPS).
- Current WIPO-CASE offices upload documents automatically to a central database, and access the system via a web interface
- New offices may not have digitized documents, or mechanisms for automated delivery over the internet.
- New work-sharing models need to be supported, including outsourcing and collaborative examination

# Global Dossier Concept

## Global Dossier

IP5 One Portal Dossier

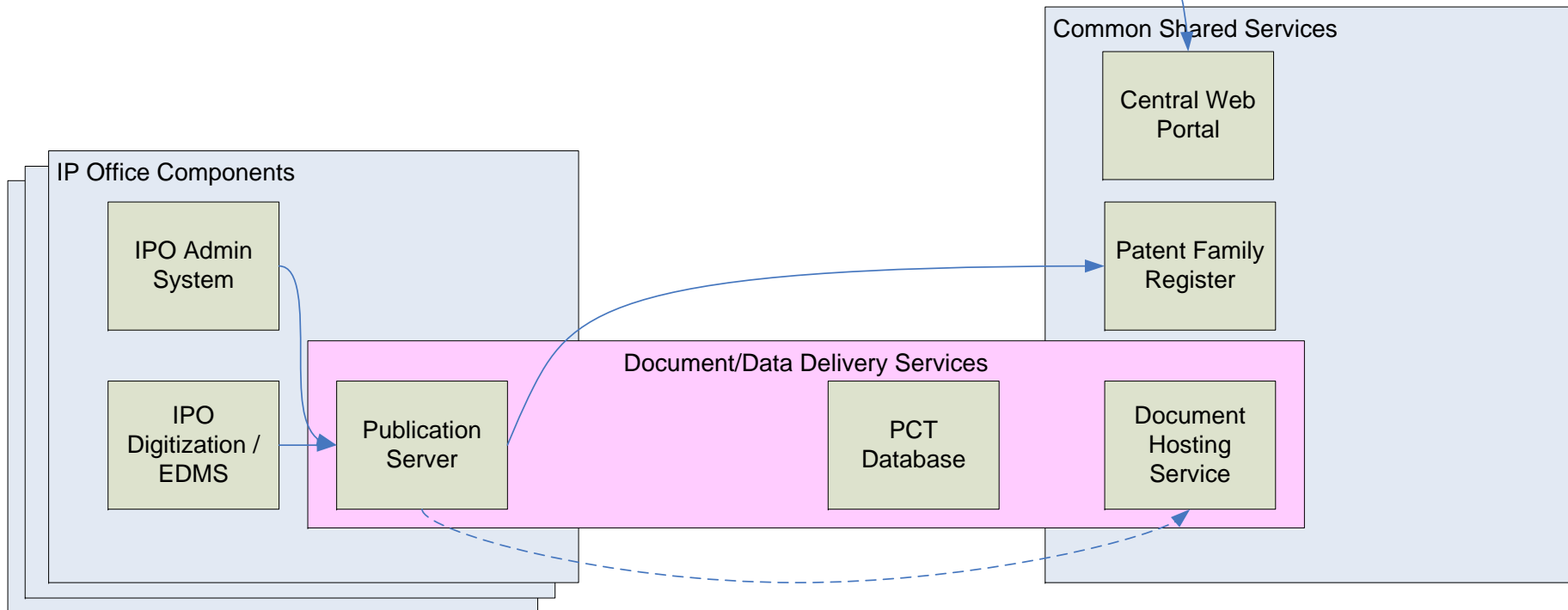




# Global Dossier Concept

## Global Dossier

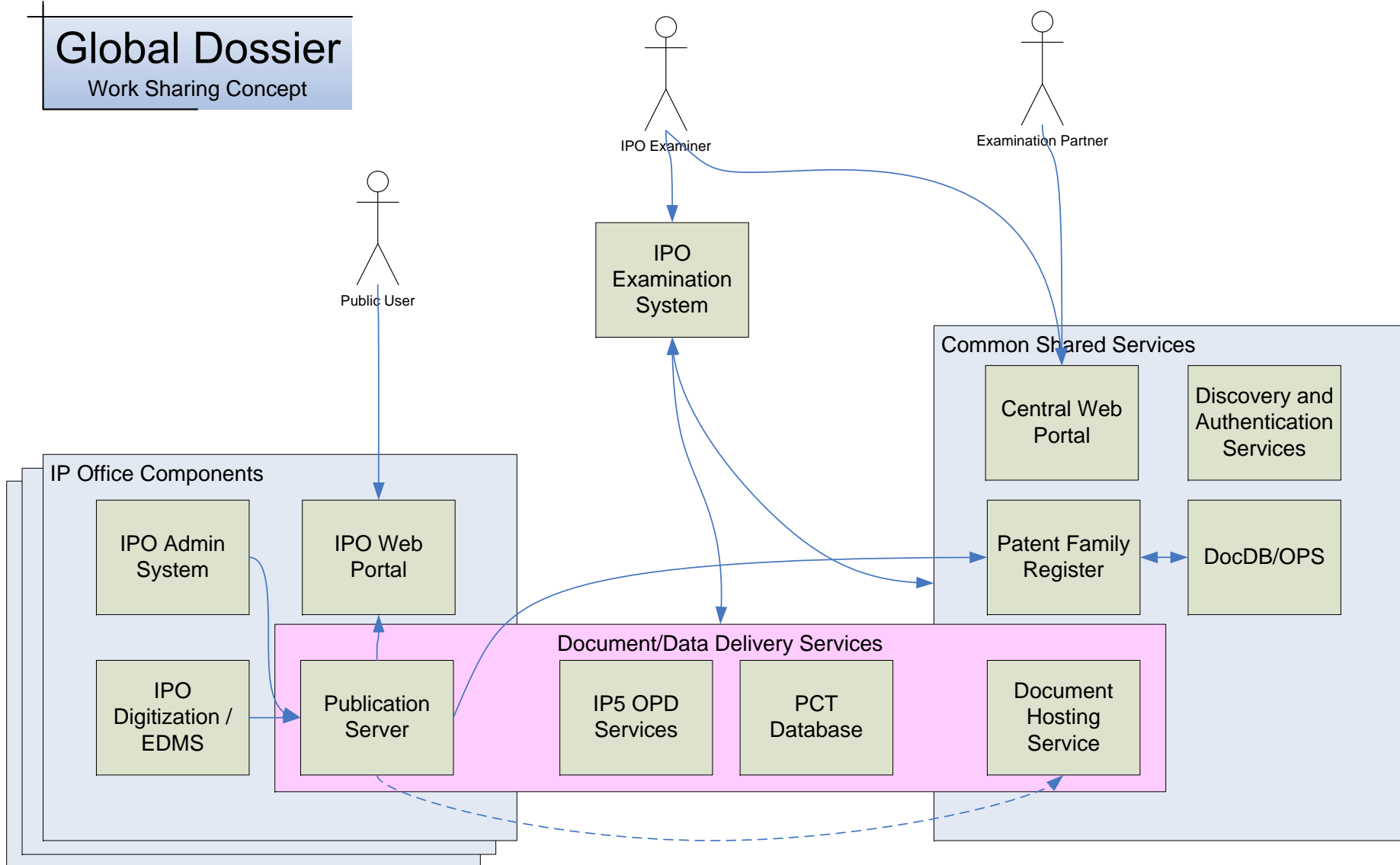
Current WIPO CASE



# Global Dossier Concept - Overview

## Global Dossier

Work Sharing Concept



# Global Dossier Concept

Options for depositing offices:

- Upload patent family data to shared repository (mandatory)
- Upload documents to share repository, or Make documents available via web services
- Use own databases and systems to standardize and store data and documents, or Use WIPO supplied systems
- Make data and documents publicly available through an integrated web portal, or Data and documents are only share with other IP offices

# Global Dossier Concept

Options for accessing offices:

- Integrate Global Dossier functions into the local examiner's workbench
- Access Global Dossier functions via a central web portal

Functions for other users:

- Public access to some data and documents, if authorized by the depositing offices
- Access for external partners, if authorized, for outsourcing or other services

# Global Dossier Concept

Components to be Extended / Integrated:

- Web services interfaces to be standardised
- New web services for discovery and authentication
- CASE patent family register to be extended and integrated with OPS for IP5 offices
- CASE web portal to support more functionality (collaboration, citations)
- Examination systems at IP5 offices to be upgraded to support new functions (integration with non-IP5 offices via new web services)

# Global Dossier Concept

New components to be built:

## ■ Discovery and Authentication Services

- a central register of all participating databases, URLs, technical details. Centralized authentication mechanism.

## ■ IP Office Publication Server

- standardized data and document store
- data quality tools (check number formats, validity, etc)
- web services interfaces to connect to Global Dossier services
- template web portal with public search facilities
- security and authentication mechanisms
- enables the development of other services, such as regional portals