

# **6th ASEAN IP Register Regional Coordinators Meeting**

## **Topic 9 ASEAN IP Register – Data Quality: Business Requirements, Challenges and Priorities**

*WIPO IP Office Business Solutions  
December 17, 2024*

# Outline

- Business requirements
- Challenges
- Scope of 2024 improvements and release
- Survey and prioritization of improvements in 2025

# Data Quality

## Business Requirements

- Completeness of data coverage and minimum dataset
- Timely data sharing and accuracy
- Standardization of data attributes
- Structured data quality feedback to ease data correction and to improve data quality at source
- Authentic and single source of ASEAN IP collections

# Challenges

## Data Coverage Issues

- Data coverage issue observed on December 13, 2024

| Trademark Collections | ASEAN IP Register | WIPO Global Brand | EUIPO TMView |
|-----------------------|-------------------|-------------------|--------------|
| Brunei                | 58'161            | 58'129            | 48'831       |
| Cambodia              | 139'244           | 139'657           | 114'280      |

- No information about data availability
  - published and registered applications
  - only registered applications
  - Application filing counts

# Challenges

## Data Accuracy Issues

- No update indicators



- Timely data sharing and make available for search

# Challenges

## Missing Date Attributes

- Standardization of “national entry” dates of international applications
- Gazette publication dates or public inspection dates
- A few filing dates are missing due to extraction rules (to be fixed)

# Challenges

## Data Coverage and Completeness

- Data coverage information by implementing ST.37 in text, listing the minimum data elements publication authority, publication number, kind code, publication date, + optional (abstract-text, description-text, claims-text)
- patent authority file = list of published applications/documents

```
UA,1,C2,1993-04-30 <CRLF>  
UA,1,U,1995-06-30 <CRLF>  
UA,2,C2,1993-04-30 <CRLF>
```

```
...  
EP,2363052,A1,20110907,W, ABST-U, DESC-U, CLMS-U <CRLF>  
EP,2363053,A2,20110907,M, ABST-en, DESC-N, DESC-N<CRLF>  
EP,2540632,A1,20130102,P, ABST-N, DESC-N, CLMS-N<CRLF>  
EP,2540632,B1,20151202, , ABST-en ABST-fr ABST-de, DESC-en, CLMS-en<CRLF>
```

# Challenges

## Data Coverage and Completeness

- Similar full coverage information for industrial designs and trademarks in IPAS, including publication authority, publication number, publication date
- For statistics purpose, it might be helpful to collect yearly filing counts including unpublished applications



# Challenges

## Standardization of File Categories and Statuses

- Standardized filing Categories
  - International versus national and “national phase” applications
  - Utility models and related application types
- Standardized application file statuses and key events based on WIPO Standards (ST.27 patents, ST.61 trademarks, ST.87 industrial designs), with the minimum key events
  - active (pending and in force), not active, terminated□

# Challenges

## Sharing Key File Events

### ■ Availability of 21 key events

|      |  |      |  |
|------|--|------|--|
| A10. | Application filed                                | N10. | Application or IP right terminated     |
| B10. | Application discontinued                         | P10. | Document modified                      |
| C10. | Application revived                              | Q10. | Document published                     |
| D10. | Search and/or examination requested or commenced | R10. | Party data change recorded             |
| E10. | Pre-grant review requested                       | S10. | Licensing information recorded         |
| F10. | IP right granted                                 | T10. | Administrative procedure adjusted      |
| G10. | Protection beyond IP right term granted          | U10. | Fee paid                               |
| H10. | IP right ceased                                  | V10. | Appeal requested                       |
| K10. | IP right revived                                 | W10. | Other event occurred                   |
| L10. | IP right review requested                        | Y10. | Event information corrected or deleted |
| M10. | IP right maintained                              |      |  |

# Challenges

## Timely Data Updates

- Data sharing
  - before grant
  - as granted
  - In case of file status changes



# Challenges

## Data Quality Feedback

- Collect offices feedbacks about the expected reported format describing
  - Unspecified file status and filing category
  - Missing PCT NPE date
  - Missing indicator of natural person in stakeholder details
  - Missing IPC, title, abstract, priority details
- Possibility to retrieve data quality through API
  - api specification available in yaml

# Data Quality Model

```
... "applicationBag": [
  ... {
    ... {
      ... "applicationIdentification": {
        ... "IPOfficeCode": "VN",
        ... "applicationNumber": {
          ... "applicationNumberText": ""
        },
        ... "applicationFilingCategory": "National",
        ... "inventionSubjectMatterCategory": "Utility",
        ... "filingDate": ""
      },
      ... "PCTNationalPhaseEntryDate": null,
      ... "internationalOrRegionalFilingData": {
        ... "applicationIdentification": {
          ... "IPOfficeCode": "VN",
          ... "applicationNumber": {
            ... "applicationNumberText": ""
          },
          ... "applicationFilingCategory": "PCT",
          ... "inventionSubjectMatterCategory": null,
          ... "filingDate": ""
        }
      },
      ... "inventionTitle": "",
      ... "abstract": "",
      ... "priorityClaimBag": [
        ... {
          ... "IPOfficeCode": "VN",
          ... "applicationNumber": {
            ... "applicationNumberText": ""
          },
          ... "filingDate": "",
          ... "applicationFilingCategory": "PCT",
          ... "inventionSubjectMatterCategory": null
        }
      ],
      ... "IPCClassificationBag": [
        ... {
          ... "mainClassification": "",
          ... "furtherClassification": ""
        }
      ]
    }
  }
]
```

# Minimum Patent Document set

- Specification and search reports
- Accessible through WIPO CASE compatible services

## **applications** patent application related data

**POST** /applications retrieve the bibliographic data of IP applications

**GET** /applications retrieve the bibliographic data of an IP application on record

## **documents** patent document related data

**GET** /doclists retrieve meta data of all the documents associated to an IP application.

**GET** /documents retrieve the content or meta data of a patent application document based on id

## **citations**

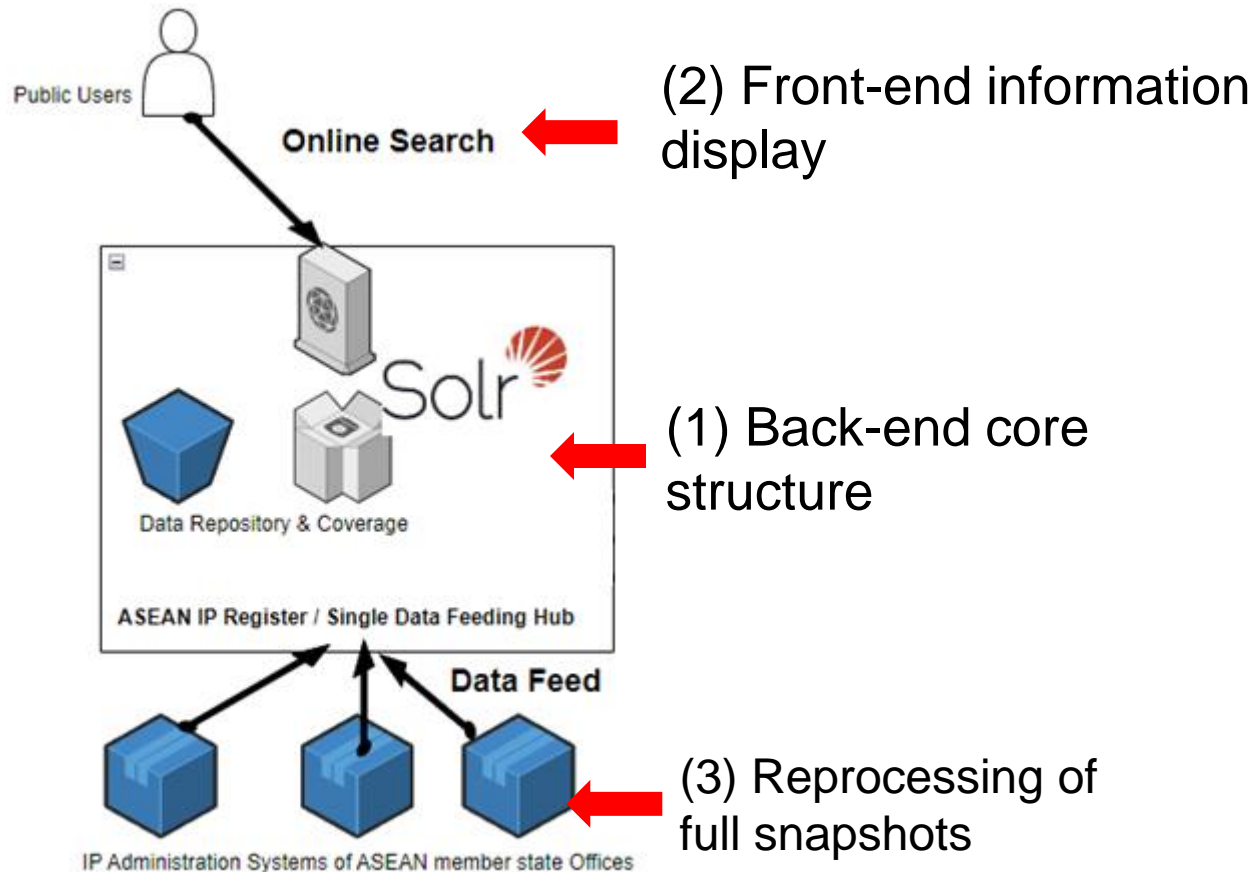
**POST** /applications/citations retrieve the citation data of a list IP application files

**GET** /applications/citations retrieve the citation data of an IP file

# Scope of 2024 Improvements

- Data elements for standardization of file statuses and key events (publication, grant, termination)
- Data elements for legal entities, which are helpful for name harmonization to build IP Portfolio services
- Data elements for quality report
- Key events to keep data snapshots as received
- Cloud services to improve the scalability and timeliness of data processing
- System architecture improvement to improve system performance
- Minimum set of patent documents accessible as WIPO CASE providing services

# Dependency of Improvements





# Release in 2025/Q1

- New release of WIPO Publish (extraction tool)
  - Standardized file statuses  
active, not active, terminated
  - Key events, optional office-specific event information  
Application filed, Document published, IP Righted ceased,  
Application or IP Right terminated
  - Indicators of natural persons or legal entities
  - Gazette-based publications or public inspection
- Reprocessing of full snapshots of all offices data as needed
- New release of ASEAN IP Register with addition of standardized data elements that are required for other improvements planned in 2025

# Data Quality Survey

| Data Quality   | Industrial design | patent                  | trademark  |
|--|-------------------|-------------------------|------------|
| Are there any legal obstacles for your office to share changes of file status in case of expiration, abandon, withdrawal, cancellation, termination  |                   |                         |            |
| Expected implementation timeline within the next 6 months, 1 year or 2 years   |                   |                         |            |
| Are there any legal obstacles for your office to share renewal information   |                   | [Redacted]              |            |
| Expected implementation timeline within the next 6 months, 1 year or 2 years   |                   | [Redacted]              |            |
| In case of Hague or Madrid applications and if applicable, does your office capture IRN in your national application files?  |                   | [Redacted]              |            |
| Expected implementation timeline within the next 6 months, 1 year or 2 years   |                   | [Redacted]              |            |
| Does your offices capture other types of relationship if applicable in patent applications (addition, division, re-registration, MOU, etc)   | [Redacted]        | patent<br>if applicable | [Redacted] |
| Expected implementation timeline within the next 6 months, 1 year or 2 years   | [Redacted]        | if applicable           | [Redacted] |
| Does your offices accept utility models and patent provisional applications?   | [Redacted]        | patent<br>if applicable | [Redacted] |
| Expected implementation timeline within the next 6 months, 1 year or 2 years   | [Redacted]        | if applicable           | [Redacted] |
| Does your offices capture claims and descriptions in text?   |                   |                         |            |
| If claims and descriptions are available in text format but not yet shared in ASEAN IP Register, would we expect any possible expected timeline next 6 months, 1 year or 2 years             |                   |                         |            |
| Are there any legal obstacles for your office to share license information?  |                   |                         |            |
| Expected implementation timeline within the next 6 months, 1 year or 2 years   |                   |                         |            |
| Please indicate the cutoff date from which your office has available information to generate patent authority files  |                   |                         |            |
| Does your office capture gender information in a specific data attribute?  |                   |                         |            |
| Does your office has data attributes to differentiate natural persons and legal entities?  |                   |                         |            |
| Please indicate the timeline of your data dissemination through ASEAN IP Register by IP type before grant (filing date+x months), grant (filing date+x months), after grant (grabt +x weeks) |                   |                         |            |

# Prioritization of Improvements in 2025

- Scalability of the search engine
- User experience for data exploration using BI services
- Extension to ASEAN GI database
- Other recommendations based on data quality manuals and survey
- Machine translation service for non-English titles and abstracts
- Patent documents accessible to WIPO CASE
- Full text claims and descriptions

# Other Improvements

- Suggestions
- Discussion