



Topic 10: ASEAN Patent Data Quality Manual

Purpose of Data in the ASEAN IP Register

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- The intellectual property (IP) data in the ASEAN IP Register is vital for supporting a wide range of IP activities across ASEAN Member States and the broader IP community. To ensure that this data meets its intended purposes, it is essential to define and align the data quality standards with these specific objectives. The following outlines the key roles that IP data serves in the Register:



Purpose of Data in the ASEAN IP Register

- Promotion of Transparency and Public Access
- Facilitating Strategic IP Decision-Making
- Supporting IP Research and Development
- Ensuring Consistent and Secure Access to ASEAN IP Data



Key Dimensions of Data Quality

- Accuracy: Data correctly reflects source information.
- Completeness: All mandatory fields are populated.
- Consistency: Uniformity across records and datasets.
- Timeliness: Data is current and updated promptly.
- Validity: Conforms to required formats and standards.
- Reliability: Stable, dependable data with minimal changes.
- Traceability: Changes and origins of data are documented.



Metrics for Assessing ASEAN Patent Data Quality

Metric Category	Metric	Measurement
Accuracy Metrics	Error Rate	Proportion of records in the ASEAN IP Register with inaccuracies or discrepancies.
	Data Matching Rate	Alignment of data in the ASEAN IP Register with source data from national IP offices.
Completeness Metrics	Category-Specific Completeness	Proportion of required fields populated for each patent data category in the ASEAN IP Register.
	Overall Record Completeness	Percentage of records in the ASEAN IP Register with all mandatory fields completed.
Consistency Metrics	Record-Level Consistency	Logical alignment and uniformity of data within each record in the ASEAN IP Register.
Timeliness Metrics	Data Loading Time	Time taken to load new or updated data into the ASEAN IP Register after receipt from national IP offices.
	Data Refresh Rate	Frequency of updates to the ASEAN IP Register.
	Data Currency	Recency of data in the ASEAN IP Register compared to the data source.

Metrics for Assessing ASEAN Patent Data Quality

Metric Category	Metric	Measurement
Validity Metrics	Conformance to Standards	Percentage of records in the ASEAN IP Register that conform to required formats and standards.
	Validation Rules & Format Compliance	Proportion of records that pass validation checks and adhere to formatting requirements.
Reliability Metrics	Change Rate	Frequency of corrections or modifications made to records in the ASEAN IP Register.
Traceability Metrics	Data Provenance Documentation	Proportion of records with documented sources and modification history.
	Audit Trail Completeness	Percentage of records with a complete audit trail of changes, including timestamps and responsible entities.
	Source Attribution Rate	

Standardization of Patent Data



- Goal: Achieve consistent, secure, and comparable regional data.
- Key Aspects:
 - Adoption of WIPO Standards.
 - Validation Rules to check field correctness.
 - Uniform formats for application numbers, priority dates, and bibliographic data.

Data Validation Framework

- Purpose: Identify and address inconsistencies.
- Examples of Validation Rules:
 - Missing fields (e.g., Filing Date, Abstract).
 - Logical inconsistencies (e.g., Filing Date after Publication Date).
 - Ensuring completeness of Priority Details and IPC Classifications.



Conclusion

- **Summary:** The ASEAN IP Register is committed to maintaining accurate, reliable, and traceable patent data.
- **Key Takeaways:**
 - Clear quality metrics ensure data integrity.
 - Standardized formats and validation rules enable regional consistency.
- **Call to Action:** Continue efforts to improve data quality and meet stakeholder needs.



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Thank you

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