

ASEAN IP Register Data Quality Manual: Key Points Overview

WIPO-ASEAN WORKSHOP ON INFORMATION TECHNOLOGY

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Foundations of the ASEAN IP Register Data Quality Manual

Purpose and Scope of the Manual

Standardizing IP Data Management

The manual standardizes data practices for patents, trademarks, and designs to ensure accuracy and transparency across ASEAN.

Alignment with International Frameworks

It aligns with WIPO standards and ISO codes ensuring consistent IP information management globally.

Governance and Security Measures

The manual includes governance principles and security protocols to protect data integrity and support compliance.

Fostering Regional Collaboration

Promotes cooperative efforts among ASEAN states to ensure consistent application and strengthen regional IP integration.

Data Quality Framework and Guiding Principles

Seven Key Dimensions

The framework includes accuracy, completeness, consistency, timeliness, validity, reliability, and traceability to ensure data quality.

Guiding Principles

Standardization, validation, continuous monitoring, security, and compliance support the integrity and reliability of IP data.

Importance of Timeliness and Traceability

Timely updates and traceable audit trails enhance legal processes, accountability, and transparency in data management.

Metrics and Validation for Data Quality

Key Metrics for Assessing Data Quality

METRIC CATEGORY	METRIC	MEASUREMENT
Accuracy	Error Rate	Proportion of records with inaccuracies
Accuracy	Data Matching Rate	Alignment with source data
Completeness	Category-Specific Completeness	Required fields populated per category
Completeness	Overall Record Completeness	All mandatory fields completed
Timeliness	Data Loading Time	Time to load updates
Timeliness	Data Refresh Rate	Frequency of updates
Validity	Conformance to Standards	Percentage of records meeting format rules
Reliability	Change Rate	Frequency of corrections
Traceability	Audit Trail Completeness	Proportion of records with full history

Validation Rules and Compliance Standards

Format and Logical Validation

Validation ensures IP data follows country-specific formats and logical date sequences for accuracy and consistency.

Controlled Vocabularies and Standards

Controlled vocabularies referencing WIPO standards unify IP right types, statuses, and classification codes for uniformity.

Completeness and Logical Consistency

Mandatory fields are verified and logical inconsistencies like date errors are prevented to maintain data integrity.

International Compliance

Compliance with Locarno, NICE, and other international frameworks enables global interoperability and cross-border integration.

IP Data Categories and Key Requirements

Patents: Essential Fields and Standards

Mandatory Patent Fields

Application number, filing date, publication number, and grant details are essential for patent lifecycle tracking.

International Standards Compliance

Applicant and inventor info must follow ISO 3166; documents conform to WIPO ST.96 XML for interoperability.

Validation and Formatting Rules

Validation rules ensure correct date sequencing and controlled vocabularies; for enhanced consistency.

Supporting Legal Certainty

Accurate, comprehensive patent data supports legal certainty and facilitates research and innovation in ASEAN.

Industrial Design and Trademark Data Essentials

Industrial Design Data Fields

Key industrial design data includes application numbers, filing dates, Locarno codes, and approved design representations.

Trademark Identification Details

Trademarks require mark type classification, representation, NICE and Vienna codes, plus filing and registration details.

Validation and Standards Compliance

Validation rules ensure chronological date order, controlled vocabularies, and adherence to international IP data standards.

Benefits of Standardization

Standardizing IP data enhances search accuracy, examination efficiency, and supports regional and global interoperability.

Observations and Strategic Recommendations

Key Observations from Data Quality Assessments

Country Code Inconsistencies

WIPO ST.3 country codes differ from ISO 3166 standards, causing validation issues in applicant data.

Interim Use of ISO Codes

Using ISO 3166 codes as a temporary solution improves data completeness and reduces errors.

Variations in Digitization

ASEAN Member States show differences in digital tool adoption and data field coverage.

Need for Capacity Building

Capacity building and standardized protocols are essential to harmonize regional data practices.

Future Directions for Enhancing Data Quality

Automation and Emerging Technologies

Implement automated validation, AI, and blockchain to enhance data accuracy, security, and timeliness effectively.

Standardization Across Member States

Establish common guidelines for data identification and classification to improve consistency and interoperability regionally.

Capacity Building and Collaboration

Conduct training programs and regional workshops to build competency and share best practices among IP personnel.

Transparency and Feedback Mechanisms

Develop traceability systems and user feedback channels to ensure accountability and prioritize data quality improvements.

Conclusion and Impact

Summary of Key Takeaways

Data Quality Framework

The manual defines seven core data quality dimensions ensuring accuracy, completeness, and consistency.

International Standards Adoption

Adopting WIPO ST codes and ISO formats enhances global compatibility of IP data across ASEAN.

Strategic Recommendations

Focus on automation, capacity building, and tech integration for future-ready IP data governance.

Impact and Leadership

The manual fosters innovation, stakeholder confidence, and positions ASEAN as a leader in IP data governance.

Thank you for listening.
