Data management – A critical constituent for IDMP compliance

Infosys recognizes that identifying, sourcing, qualifying, and curating the data required for IDMP is the most critical part of the implementation journey.

In their constant endeavors for safer medications and to improve patient safety, regulatory organizations are gradually moving towards the implementation of the Identification of Medical Products (IDMP). While the IDMP guidelines are maturing, life sciences organizations are making efforts to be ready to achieve compliance.

Through the readiness phase, companies are increasingly realizing the importance and magnitude of the data management challenge that IDMP specifications pose to them. Life sciences companies need robust data management strategies to meet IDMP compliance requirements. Data required for IDMP needs to be sourced from multiple structured and unstructured sources, spanning centralized and localized systems and departmental controls across the medicinal product value chain. This diverse data needs to be further complemented by standardized referential data provided by external, third-party agencies, thereby, further complicating data management challenges.

Key data management challenges

**Increased scale of compliance needs**
The data elements required for assembling product information as per IDMP specifications is far more complex than what is being captured for current requirements like xEVMPD. For an organization with a larger product portfolio, data management complexities only increase.

**Data collaboration across business units**
The medicinal product data required for IDMP specification is present across a wide set of functions and systems within life sciences organizations, possibly including partner systems. This poses a challenge for defining robust data assembly and management processes.

**Ensuring data consistency**
Ensuring consistency of data collected from multiple sources on an ongoing basis is challenging, and robust data curation processes must be put in place to address this issue.

Infosys solutions and services for IDMP data management

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- Infosys IDMP Assessment and Data Management solution
- Infosys Data Extraction and Enrichment platform
- Infosys Data Quality Management services
Focus areas in data assessment and management as well as how the Infosys Assessment and Data Management solution can address challenges

Key features

A web-based solution to achieve an efficient mechanism for data collection, assessment, and management, in accordance with IDMP-ISO standards that provides an easy and multilevel drill-down view of data at different levels.

- IDMP objects, source application, and summary view
- Creation of medicinal product data (manual or automated load)
- Management of the collected data through workflow-based processes and life-cycle mechanisms
- Data quality assessment through comparison and reporting features
- Data quality management and curation capabilities
- Integrated with controlled vocabularies providing auto-coding features
- Integration to extract structured data from the source
- Integration with a text mining component to bring unstructured data into the system
- Flexible and configurable models designed to address the evolving IDMP model specifications
- Reduce manual efforts of entering data through bulk upload interfaces and integration features. Leverage and integrate Infosys DEEP platform to process data from unstructured data sources
- Integrated solution to gather and curate the quality assessment and governance of IDMP data – an approach that readsies data with the end-state in mind
- Data and process harmonization across your functional and regional boundaries

Business benefits

- Tactical data governance model aligning with your strategic approach, which often goes well beyond IT, with a focus on Master Data Management (MDM)
- A flexible solution based on the IDMP object model that adapts to changes to IDMP objects and also supports IDMP future iterations
- Having identified and collected the source data, comparison of these source data for quality and conformance to the IDMP requirements is a key activity
- Once the data gaps are identified, defining remediation methods is important
- Cleansing data at source and ensuring the data is in IDMP conformance at source itself is the best and most desired method but may not be feasible to alignment with the IDMP compliance deadlines
- Each of the source systems would have its own data management processes and unifying source processes will not be advisable
- The definition of data management processes required for compilation, review, approval, and submission of IDMP data expected to be outside of the source systems.

For more information, contact askus@infosys.com