

Get complete freedom from complex manual data aggregation tasks and focus on analyzing clinical, operational or other data of interest with a data aggregation platform that is flexible enough to accommodate multiple source systems and formats, and provide analytics to enable users to visualize outliers and trends

Key Components

Data Standardisation	<ul style="list-style-type: none"> Compliant with CDISC SDTM standards Scripting API available to resolve complex mappings Engine learns the mapping using keyword matching algorithm over the time
Data Aggregation	<ul style="list-style-type: none"> Mongo aggregation and map-reduce functions leveraged for study level aggregations Spark and Hadoop for cross study and combining other structured and un-structured data (Roadmap)
Holistic Subject Review Data Chunking	<ul style="list-style-type: none"> Holistic subject review data chunking based on completed visits Computation of cleanliness scores by chunks
Risk Review and Triggers	<ul style="list-style-type: none"> Triggers qualitative and quantitative risk reviews for central monitors Computation of risk scores and thresholds for Spark Manager
Alerts & Notifications	<ul style="list-style-type: none"> Alerts and notifications engine to notify users of operational and medically significant events requiring attention

Product Features

Inbound Data Manager

- API driven module – support for custom data pipelines based on customer needs
- Implementation uses data pipeline architecture for processing data
- Inbound Data Descriptors (IDDs) describe the inbound data structure
- Supports various data formats – line listings, ODM, text files etc.

Data standardization engine

- Data standardization leveraging CDISC SDTM model
- Smart map feature allows auto mapping

Clinical data stored in Subject Clinical Document structure

- SCD structure holds the source and standardized data
- Robust versioning support to identify any subsequent changes in data from source system

Raw datasets are stored in the document store for troubleshooting and resubmitting jobs for any failures

Data aggregates computed using Mongo aggregation and Hadoop / Spark big data libraries

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