

ReportMiner 8 Convert Raw Unstructured Data into Intelligent Insights

Cut Down Data Preparation Time from Weeks to Hours Accelerate data retrieval, cleaning, and reformatting to prepare unstructured

data for analysis using the self-service approach.

Create Reusable Data Extraction Models for Repeatable Processes

Build flexible, template-based data extraction models for files with similar layouts and re-use them for faster process execution.

Integrate Extracted Data Using an Intuitive, Visual Approach

Create integration processes using drag-and-drop mapping and code-free

UI to reduce the gap between data preparation and analysis.

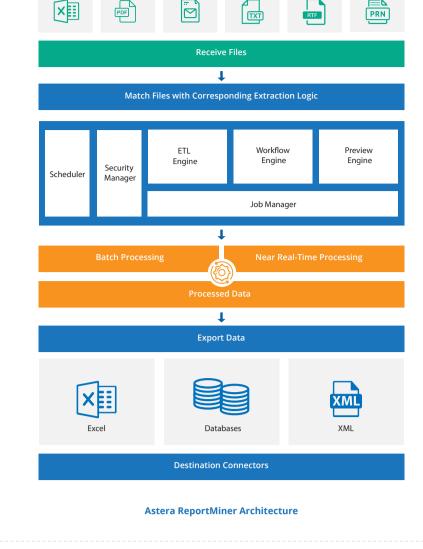
reports - retrieving data manually requires a significant investment of time and resources. The result is delayed insights and inefficient decision-making. Astera's self-service data preparation platform, ReportMiner, enables business users and analysts to extract, transform, clean, standardize, and convert data into their desired format - without writing a single line of code.

Fast information access is crucial to the successful and efficient implementation of analytical processes. When

you're dealing with unstructured data trapped within bank statements, invoices, spreadsheets, machine logs, and

The combination of intuitive, visual UI and process automation features enables users to create repeatable data preparation processes yielding substantial cost savings in the long run. ReportMiner is purpose-built to support the extraction and structuring of unstructured data sources to be used within any data pipeline and solve complex operational problems for faster time-to-insights.

Source Connectors



Development Environment

Intuitive UI: Prepare your raw, unstructured enterprise data for further processing in a visual,

View and modify report model properties, and observe the changes **Dedicated Properties Panel**

File Sources

in real-time through dedicated panels for Report Options, Region, Field, and Pattern properties. Specify Report, Region, Field, and Pattern properties through the shortcut icons present in the Properties Panel toolbar, eliminating the **Shortcut Icons** need to switch screens. Access data connectors and pre-built transformations through the Toolbox Toolbox to fuel your data preparation processes. Manage your report models with a Report Browser that shows the complete model layout, and provides easy access to data import and **Report Browser** export options. Verify and test the report model as it's being built or modified via Single-Click Preview Single-Click Preview. View the extracted data in real-time and check for verification errors. Get access to all the elements of your data extraction projects, i ncluding report models and shared connections, in one place with **Project Explorer** the Project Explorer. Data Extraction: Retrieve data from a range of unstructured and semi-structured sources using built-in source connectors.

Leverage native connectivity to file repositories, such as Local **File Repositories** Directory, FTP/SFTP, and e-mail source to expedite data retrieval.

Capture meaningful information from diverse file sources,

including PDFs, PDF forms, TXT, PRN, RTF, XLS, XLSX, and COBOL.

The hierarchal model capability of ReportMiner enables extraction **Hierarchical Data** from complex hierarchical text reports. Access data from cloud sources using internal, external, and custom APIs by importing JSON/YML file or URL. REST APIs (available as an add-on) Data Export: Transfer extracted data to a range of destinations and formats. Load data in your required database system. Supported destinations include relational databases, like SQL Server, MariaDB, SAP HANA, Vertica, Redshift, Aurora, Snowflake, Oracle, IBM DB2, MySQL, PostgreSQL, and others via ODBC connectivity. **Databases**

Export data to different file formats, including fixed length, .CSV, **File Formats** Excel, and XML/JSON.

Use your report model as a source object in a dataflow, and leverage the advanced pre-built transformations and SQL Query features of **Export as Dataflow** ReportMiner to create advanced data processes. Modify export settings at the final stage by filtering data, adding **Export Settings** expressions, and more without making any changes in the report model. Report Model Data Extraction Models: Build reusable extraction models in an easy-to-use interface and cut down manual efforts in your data preparation process.

Build new report models using the simple, point-and-click UI. View

Save and use extraction models for subsequent conversions involving

Identify the starting point of a region by matching an alphabet, character or digit, and creating a text pattern.

Specify which data to extract from your unstructured reports by creating your data fields with just one-click.

Customize your data regions by specifying where you want to end y our region. The available options include by *Line Count, Blank Line,*

Specify the constraints of your data region by enclosing it in a

Utilize the enhanced built-in data cleaning options to remove

Capture a data region based on the pattern count specified in the

Execute dataflows, workflows, as well as transfer and batch jobs on

Remove unnecessary sort operations and ORDERBY clauses to

reduce job execution time by utilizing the built-in Job Optimizer.

Automatically pull files in near real-time using the File Drop feature

Control role-based access for new users and modify the existing

and orchestrate the entire data extraction process with minimal manual

properties panel to identify the starting point of your region.

redundant characters and spaces from report model fields.

Last Field Ends, and Another Region Starts.

container or defining overlapping containers

all the report model's occurrences in the Report Browser.

Re-Use Model

Create New Model

files with similar layout, saving time and manual effort.

Get detailed statistical breakdown of the extracted data, including **View Statistics** error count, null count, warning count, and more to ensure data accuracy and validity. Capture unstructured data into a structured format by specifying a pattern based on an alphabet, character, word, number or a **Pattern** combination of these. Specify the number of lines covered in a source report to create a **Data Region** data region that is specified by a pattern. Extract data points from the file and write them as elements of **Data Field** a data field within the data region. Identify the starting point of a region by matching an alphabet, **Match Entities** character or digit, and creating a text pattern. **Report Properties** Configure Reports: Modify the extraction properties without switching windows.

Auto Create Fields

Region Details

Specify Container

Data Cleansing

Specify Pattern Count

Workflow Automation

Reading Options

Eliminate manual efforts by automatically determining the field **Auto Determine Field Names** names in the selected data region for new source files loaded into the report model.

Define Regions: Create report models by defining region properties in the sidebar panel.

Create Fields: Support the selection and extraction within a data field through the set of field properties displayed in the sidebar. Determine the field length of the available data with a single click, **Auto-Determine Field Length** cutting down manual efforts. Easily manage the field length by increasing or decreasing input **Modify Field Length** length by the desired number of characters.

Manage misalignments by precisely identifying the field's start **Modify Size and Position** position, and modifying size and length properties.

Adjust Patterns: Create patterns in the report model to search for relevant data.

Match the pattern with the data based on Case Sensitive Pattern Match, **Modify Pattern Properties** Regular Expression, or Floating Pattern. Split a region into multiple columns and visually define the layout of the column dividers by selecting the Multi-Column checkbox. Multi-Column

Process Orchestration: Execute a series of repeatable data extraction jobs using workflows and dataflows.

Run Jobs a single server or distribute them across multiple servers.

Specify triggers based on file drops or running frequency using the **Job Scheduling** built-in Job Scheduler to automate repeatable processes. Track the workflow progress by setting up alert emails for abnormal **Send Email** terminations, task completions, errors, and other dataflow operations. **Performance** Performance Optimization: Leverage ReportMiner's performance-driven features for fast execution of your data preparation processes.

Job Optimizer

Near Real-Time Processing

Run multiple reports with one report model by looping through **Bulk File Processing** a folder with your documents and ensure faster processing.

efforts.

Security Controls User Authorization: Manage user access via advanced authentication protocols. Generate a username, password, and Token URL to regulate access **Bearer Token Authentication** requests to the server. Encrypt information transmission between the server and client

Role Management

Secure Domain Communication using the HTTPS commands.

User Authentication: Create user-defined roles to control and manage user access.

Manage users and their roles through a unified user management **User Management Monitoring** Monitoring Protocols: Track the progress of your extraction jobs and monitor the server load via monitoring features.

ones via the role management feature.

Server Monitoring

Get a detailed summary of the data extraction jobs executed on the server with detailed information about each step to control the re-execution or termination of dataflows and workflows.

Generate a Server Diagnostics File and Log File to manage server

resource utilization and enable faster troubleshooting.

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