ReportMiner
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Overview

Information drives today’s businesses and manually transferring unstructured data into electronic formats is no longer a cost-effective option.

Astera’s ReportMiner is a technology that has been developed to enable businesses to quickly and easily extract data from printed documents so that it can be integrated into their database and leveraged for operations and business intelligence needs. This saves significant human resource time and dollars, as well as freeing up resources for other more important work.

ReportMiner enables business users and application developers alike to quickly and easily liberate important business data trapped in printed documents such as reports, bank statements, and invoices in popular formats such as PDF, PRN, CSV, XML and text-based files.

With ReportMiner’s flexible and intuitive visual interface, users with little or no technical background can easily accomplish a wide range of data extraction tasks without employing expensive IT resources.

Information is extracted via Astera’s signature intuitive, drag-and-drop interface. Using a sample document, a report model is visually defined. This model identifies regions and fields within the document and their interrelationships. While building, the report model can be verified and tested using ReportMiner’s innovative single-click data preview capability.

Once the data has been extracted by ReportMiner, it can be leveraged using Astera’s Centerprise Data Integrator for many different applications, including data integration, data transformation, data quality, and data profiling.

Key Features

- Intuitive user interface
- Hierarchical data extraction
- Single-click preview
- Data mapping and export to any supported destination and format
- Report models can be saved and used over and over again for subsequent conversions, saving even more time
- Performance: multi-core and multiprocessor hardware mine and deliver data quickly and efficiently
Intuitive User Interface

A WYSIWYG user interface enables users to view the document and define regions and fields. As these areas are defined, ReportMiner highlights all occurrences of the regions and fields. The Auto-Create field capability instantly identifies all the fields in a region and determines their data types and sizes. This capability enables users to define and verify a report model in minutes.

Hierarchical Data Extraction

Data extraction can be done from complex hierarchical reports in a single pass using the hierarchical model capability of ReportMiner.

Figure 1. ReportMiner’s intuitive interface enables users to view the document and define regions and fields.

Figure 2. The hierarchical model feature extracts data from complex reports in multiple levels.
Easy-To-Build Model

Alternatively, the easy-to-use interface enables users to manually add a field by simply highlighting the field in the object with the mouse cursor, right-clicking it, and selecting Add Field. A new field is added to the Report Browser and the Report Definition Editor shows all the occurrences of this field in the report.

Single-Click Preview

Single-click preview capability verifies and tests the report model as it is being built. This preview shows extracted data and any conversion or validation errors.

Figure 3. Users can manually add a field by simply highlighting the field in the object and selecting Add Field.

Figure 4. The single-click preview verifies and test the report model as it is being built.
Re-Use For Subsequent Conversions

Report models can be saved and used over and over again for subsequent conversions, saving even more time.

Data Mapping and Export

ReportMiner supports data mapping and export to any supported destination and format. Supported destinations include databases like SQL Server, Access, MySQL, PostgreSQL, and any ODBC compatible database; file formats such as fixed length, delimited, Excel, and XML.

![Figure 5. ReportMiner supports data mapping and export to any supported destination and format.](image)

Performance

ReportMiner is designed to efficiently process large data volumes. Built from the ground up as a high-performance parallel-processing engine, ReportMiner takes full advantage of today’s multi-core and multiprocessor hardware to mine and deliver your data quickly and efficiently.
ReportMiner Benefits

Complete Data Integration
Leverage extracted data using Astera’s Centerprise Data Integrator for a number of complex, hierarchical data integration and management processes.

Reusability
Visually define a report model and save it to use over and over again.

Test and Verification
The single-click preview capability shows extracted data and any conversion or validation errors, enabling users to verify and test report models as they are being built.

Hierarchical Model Capability
Extract data from complex hierarchical reports in a single pass using ReportMiner’s hierarchical model capability.

Easy to Use
Drag-and-drop, code-free environment enables business users to accomplish a wide range of data extraction tasks without IT support.

High Performance
High-performance parallel-processing engine efficiently processes large data volumes.