



StatementHive

Bank Statement Automation Platform



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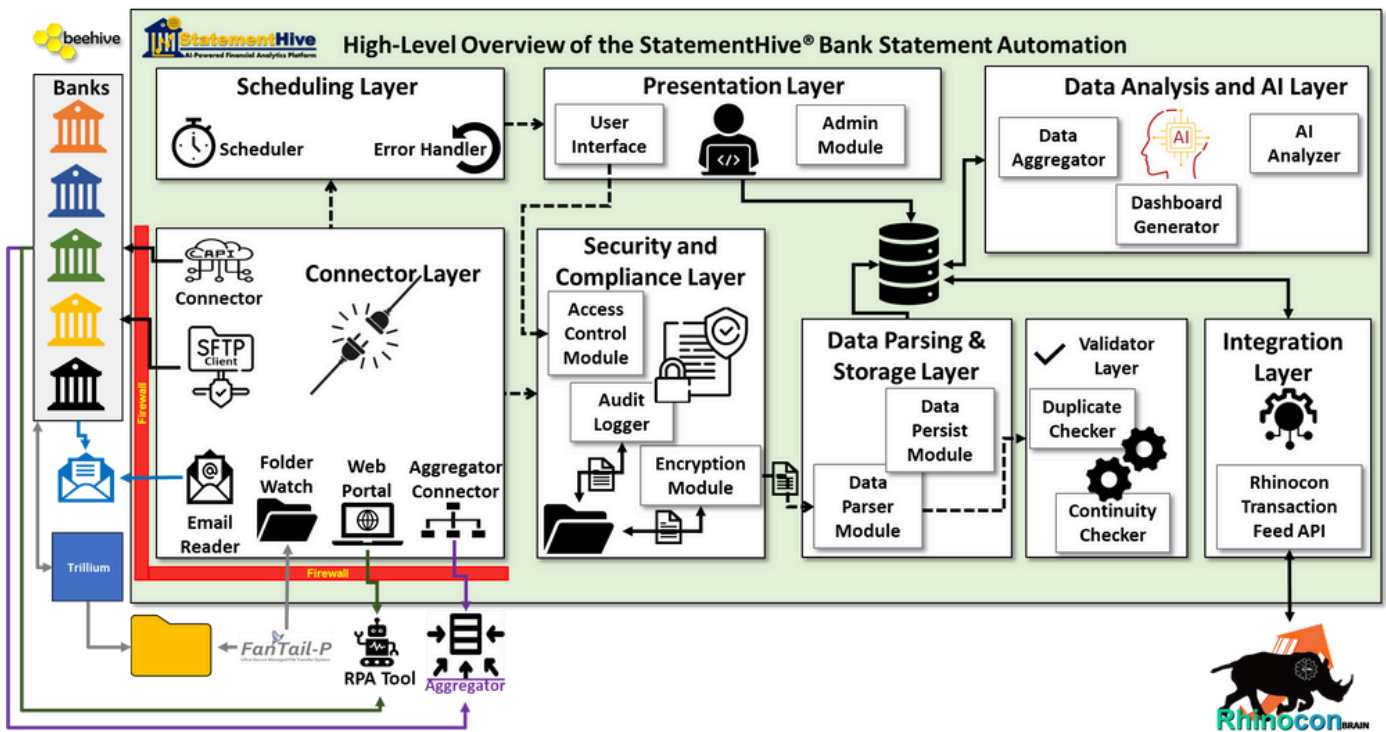


Pune | Dubai



Overview

StatementHive simplifies bank statement automation for financial operations by automating the upload process. Equipped with advanced features such as encryption, integrity checks, and seamless integration with Rhinocon, it guarantees secure, efficient, and reliable bank statement processing.





Overview...



Data Integration

- Fetch bank statements via API, email, SFTP, Input directory, or web portals.
- Supports multiple file formats: CSV, XLSX, TXT, and XML.

Security & Compliance

- Role-Based Access Control (RBAC) for secure data management.
- End-to-end encryption for data in transit and at rest.
- Comprehensive audit logging for compliance.

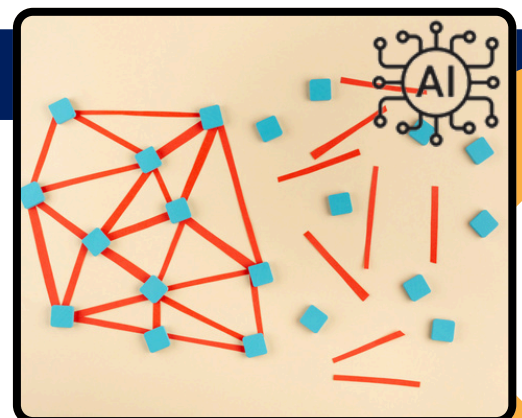


Advanced Validation

- Duplicate transaction checks.
- Opening and closing balance validation.
- Integrity checks for data consistency.

AI-Enhanced Matching

- AI-powered algorithms for matching consolidated and breakup transactions.
- Handles complex scenarios like one-to-many, many-to-one, and many-to-many.





Automation Process

Input Handling

- Automatically fetches bank statements using configurable connectors.
- Password-protected files are decrypted based on user-defined logic.

Validation Checks

- Opening balance checks ensure continuity.
- Duplicate and integrity checks flag inconsistencies.
- Consolidated entries validated against breakup details.

Data Parsing and Storage

- Flexible parsing supports diverse formats.
- Parsed data stored in a structured relational database.

AI-Based Matching

- Matches transactions between bank statements and NACH/CMS files.
- Flags unmatched entries for manual intervention.

Manual Matching

Unmatched transactions can be resolved manually:

- Consolidated entries and breakup transactions are displayed.
- User selects matching entries, with the system highlighting discrepancies.
- Matched entries are submitted for further processing.





Benefits:

Efficiency

- Reduces manual intervention with advanced automation.
- Streamlines processes, minimizing processing time and human errors.

Accuracy

- Eliminates duplication and ensures data consistency.
- Provides reliable validation checks for seamless reconciliation.

Security

- Protects sensitive financial data with robust encryption and access controls.
- Implements continuous monitoring to detect and prevent unauthorized access.

Scalability

- Supports multi-bank, multi-account setups.
- Adapts effortlessly to growing data volumes and user demands.

Flexibility

- Customizable workflows to match unique business requirements.
- Seamless integration with existing systems for enhanced compatibility.





Dashboard

StatementHive's **dashboard** provides real-time insights into system operations, ensuring transparency and efficiency. Monitor critical metrics, view performance trends, and access detailed reports at a glance. Stay informed with alerts and notifications, simplifies complex data, delivering clarity and control in one place.

Top Section

- Displays configured banks and accounts.
- Status tiles for IN, OUT, and RECON stages.

Middle Section

- Detailed file-level status for processed and pending files.
- Indicators for balance check, integrity check, and breakup matching.

Lower Section

- Quick access to unmatched entries.
- Real-time refresh for up-to-date status.

Overall View

- Interactive drill-down capabilities for deeper analysis of specific data points.
- Consolidated summaries with filters for tailored insights.





Functional Capabilities

Connector Channel Master

Channel Details

Name: SCB NACH File Bank Name: Standard Chartered Bank

API Connector SFTP Client Email Reader Input Dir

API Connector

SFTP Client

Email Reader

Input Directory

Account Aggregator

Statement Out: 5 Ready To Move: 5248

NACH / CMS Out: 0

Process Records: 31572

Booting To Overview

Credit Amount	Closing Balance	Transactions	Amount	Break Up	S1	S2	S3	S4	Status
301350840	0	5	47780995	Y	F	F	F	F	F
301350840	0	5	47780995	Y	F	F	F	F	F
1674340		425	1674340	Y	F	F	F	F	F
46106650		5241	46106650	Y	F	F	F	F	F

Break Up Details

Statement Details

Upload No	Ten Date	Debit Amount	Credit Amount	Narration	User
217	2024-09-04	0.00	31,161,371.00	NACH DR OW BULK CREDIT	TFINANCELIMITED HDFCO14360
217	2024-09-04	0.00	4,379.00	NACH DR OW BULK CREDIT	TFINANCELIMITED HDFCO14360
217	2024-09-04	0.00	23,074.00	NACH DR OW BULK CREDIT	TFINANCELIMITED HDFCO14360
217	2024-09-04	0.00	1,669,966.00	NACH DR OW BULK CREDIT	TFINANCELIMITED HDFCO14360
217	2024-09-04	0.00	14,922,205.00	NACH DR OW BULK CREDIT	TFINANCELIMITED HDFCO14360

Rows per page: 10 1-5 of 5

NACH Details

Upload No	Settlement Date	Total Amount	Credit Amount
No Data Found			

Rows per page: 10 1-4 of 4

UI for Data Template Configuration

User-friendly interface for setting up data templates. Configurable field mappings for seamless integration.

Command and Control Center

Comprehensive overview of the statement process. Real-time monitoring of incoming data.

Manual Override/Exception Handling

Provides a flexible override mechanism for manual corrections with checker. Allows user to address exceptions in the process.





Connector

StatementHive's connector layer enables smooth integration with multiple data sources through six distinct channels, ensuring efficient data flow. Whether fetching through APIs, SFTP, email or directories, it adapts to your infrastructure needs, optimizing your process.

Connector Channels:

API Connector

- Fetches banking data in real-time through secure API connections, ensuring up-to-date information for reconciliation.
- Easily integrates with existing banking systems, reducing the need for manual data upload and streamlining processes.

SFTP Client

- Securely retrieves data from remote banking servers using the SFTP protocol, ensuring encrypted and reliable data transfer.
- Supports automated, scheduled file downloads to streamline data collection without manual intervention.

Email Reader

- Automatically downloads attachments from emails, extracting bank statements and transaction data directly from mail attachments.
- Configurable to filter specific email accounts, ensuring only relevant data is processed, saving time and reducing manual effort.

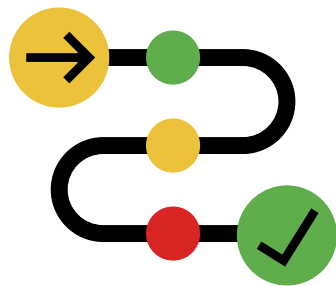




Channels ...

Folder Watch

- Collects files from designated directories, automatically processing data as soon as it arrives, improving workflow efficiency.
- Easy to setup and monitor directory connections.
- Tracks and logs all incoming data for audit purposes.



Roadmap

Web Portal

- Fetches data from web portals using integration with RPA tool, ideal for systems that do not support direct API integration.
- Configurable to get data at regular intervals, ensuring that relevant transactional data is captured without manual data extraction.

Account Aggregator

- Aggregates data from multiple bank accounts, centralizing transactional data for easy reconciliation and analysis.
- Supports real-time updates, ensuring that all account data is up-to-date and accurate for reconciliation processes.





API Connector

The **API Connector** allows seamless, real-time integration with banking systems through secure API connections. It efficiently fetches transactional data directly from the bank, ensuring that the most up-to-date information is available for reconciliation.

Secure Data Fetching

- Fetches banking data through secure APIs.
- Ensures compliance with banking regulations.
- Provides encrypted data transfer for secure handling of sensitive financial information.

Real-Time Data Access

- Real-time access to transaction data.
- Reliable and fast data transfer to minimize downtime.
- Enables instant reconciliation by providing up-to-date transactional data as it becomes available.

Seamless Integration

- Easily integrates with existing banking systems.
- Streamlines integration with third-party financial systems.
- Reduces complexity in connecting disparate systems, providing a unified solution for financial data management.

Automated Data Retrieval

- Configurable to pull data at scheduled intervals.
- Reduces manual entry by automating data fetching.
- Provides customizable scheduling options to align with business needs, reducing human error and workload.





API Connector ...

Scalability and Flexibility

- Flexible architecture to support new banking interfaces.
- Extends the capability of your existing systems.
- Easily scales to accommodate growing data volume and new banking connections, future-proofing your reconciliation process.

Fast and Reliable Data Transfer

- Reliable and fast data transfer to minimize downtime.
- Ensures uninterrupted access to transactional data, reducing the risk of data delays that could disrupt business operations.

Compliance and Security

- Ensures compliance with banking regulations.
- Provides secure, encrypted API connections that meet the latest industry standards for data protection and compliance.

System Expansion

- Extends the capability of your existing systems.
- Offers a flexible integration model that allows for easy expansion and future enhancements to meet evolving business needs.





SFTP Client

The **SFTP Client** enables secure, automated file transfers between systems using the SFTP protocol, ensuring encrypted data exchange and reliable file retrieval. It supports large files, scheduled downloads, and seamless integration with existing systems, providing an efficient and secure method for managing financial data.

Secure Data Transfer

- Uses SFTP (Secure File Transfer Protocol) for encrypted data transfers.
- Ensures that all data exchanged between systems is securely transmitted, reducing the risk of data breaches.

Automated Data Retrieval

- Automatically downloads files from designated SFTP servers.
- Supports scheduled file retrieval at configurable intervals.

Large File Support

- Handles large files efficiently through SFTP's streaming capabilities.
- Manages multiple file uploads and downloads simultaneously.

Reliability and Fault Tolerance

- Ensures reliable data transfer with automatic retry mechanisms.
- Supports failover protocols to maintain connectivity during server or network failures.





SFTP Client ...

Easy Integration with Existing Systems

- Works within your current SFTP setup, eliminating the need for costly infrastructure changes.
- Supports various authentication methods like password and key-based authentication.

Enhanced Security Features

- Supports SSH key-based authentication for added security.
- Encrypts data at rest and in transit to protect sensitive information.
- Ensures that data remains secure not only during transfer but also while stored on servers, reducing the risk of unauthorized access.

File Integrity and Auditing

- Generates audit logs for every file transfer action.
- Supports checksums and hash verifications to validate file integrity.
- Guarantees that the data received is identical to the original, with no corruption or alteration during transmission.

Compatibility with Various File Formats

- Allows seamless handling of diverse file formats used by banks and financial systems, ensuring that all necessary data is captured accurately.
- Can handle both binary and text-based files, making it versatile for different use cases.





Email Reader

The **Email Reader** automatically scans and downloads email attachments, extracting bank statements and transactional data directly from email inboxes. It simplifies data collection by eliminating the need for manual downloading, ensuring timely access to financial documents.

Efficient Attachment Downloading

- Automatically retrieves all email attachments, streamlining the process of data collection from emails.
- Supports multiple file types, ensuring flexibility in processing different bank statement formats.

Automated Data Processing

- Eliminates manual intervention by processing attachments as soon as they are downloaded, speeding up workflows.
- Capable of managing and processing large volumes of attachments at once, reducing the time spent on manual tasks.

Advanced Email Filtering

- Configurable rules allow filtering out unnecessary emails, ensuring only relevant bank statements and financial documents are processed.
- Configurable to handle multiple email accounts.

Enhanced Email Management

- Direct integration with email servers ensures a quick and secure connection for reliable attachment downloading.
- Automatically archives processed emails, keeping the inbox organized and ensuring a clean data processing environment.





Email Reader ...

Configurable POP3/IMAP Server

- A configurable POP3/IMAP server allows users to customize email retrieval settings, including frequency and synchronization options, to suit their specific needs.
- It supports secure, flexible access to emails from different email providers, enabling smooth integration with various POP3 or IMAP-based accounts.

Compression of Attachment

- Compression of email attachments reduces file size, making it easier and faster to send and receive large files through email.
- It helps save storage space by compressing attachments, enabling efficient email management and reducing server load.

Integration With Antivirus

- Integration with antivirus software helps scan email attachments in real-time, ensuring protection from malware and other threats before the email is opened.
- It provides an additional layer of security by automatically blocking suspicious emails and flagging potential risks within the email content or attachments.

Secure and Compliant Processing

- Ensures data security by encrypting email attachments during download.
- Protects sensitive financial data by ensuring that attachments are securely transferred and stored.





Folder Watch

The **Folder Watch** collects and processes files automatically from designated local or networked folders, with configurable settings for flexible integration. It tracks incoming data for audit purposes and ensures secure handling with proper access controls.

Efficient Data Collection

- Collects data from designated file directories, ensuring a seamless and continuous flow of information.
- Automatically picks up files from both local and networked folders, eliminating the need for manual intervention.

Flexible and Configurable

- Offers configurable folder path settings, allowing easy integration with different directory structures and sources.
- Supports handling various file types, providing versatility for different data processing needs.

Simple Setup and Monitoring

- Easy to set up and monitor directory connections.
- Provides flexible configuration options for multiple sources, making it adaptable to different operational environments.

Data Tracking and Security

- Tracks and logs all incoming data for audit purposes, ensuring transparency and accountability in data handling.
- Ensures secure data handling with proper access controls, safeguarding sensitive information throughout the process.





Folder Watch ...

Automation and Integration

- Automatically processes files as they arrive in the directory, streamlining workflow and reducing manual effort.
- Integrates seamlessly with workflow automation tools, enhancing process flow and operational efficiency.

Continuous File Detection

- Constantly monitors directories in real-time to detect new files as soon as they arrive, ensuring immediate processing without delay.
- Configured to trigger automated actions or workflows based on file arrival, reducing response time for critical data processing.

Automatic Error Alerts

- Monitors file processing and automatically triggers alerts for any errors or disruptions, helping prevent data loss or processing delays.
- Provides real-time notifications for failed file uploads or configuration issues, allowing immediate corrective actions.

High Volume Handling

- Capable of handling large volumes of files across multiple directories, ensuring scalability for enterprises with high data throughput.
- Configurable to manage files across distributed networks or remote systems, making it ideal for businesses with complex infrastructure.





Roadmap

Web Portal

The **web portal** enables real-time data extraction through integration with RPA tool from legacy systems that lack direct integration. It mimics human navigation to securely capture transactional data, with configurable intervals.






-  Fetches data through integration with RPA tool from web portals.
-  Designed for legacy systems that don't support direct integration.
-  Mimics human navigation to extract data in real-time.
-  Configurable intervals to pull data periodically.
-  Secure handling of login credentials and sensitive data.
-  Captures transactional data displayed on the web portal.
-  Minimizes manual extraction and data entry.
-  Ensures data integrity and accuracy.
-  Scalable to handle multiple web portals for large enterprises.





Account Aggregator

The **Account Aggregator** channel securely connect to the Account Aggregator service provider to retrieve statement data for the banks that do not offer API banking services.

-  Collects data from multiple bank accounts.
-  Aggregates transactional data from various sources into a single view.
-  Configurable to pull from specific account or all accounts.
-  Flexible configuration options to fit any organizational structure.
-  Helps maintain a centralized record of all transactions.
-  Improves reconciliation accuracy by consolidating data.
-  Secure integration with bank via Account Aggregator services.
-  Reduces manual efforts.
-  Real-time updates for immediate processing.





Command & Control

Data Template:

- User-friendly interface for setting up data templates.
- Configurable field mappings for seamless integration.
- Supports multiple data formats (CSV, XML, JSON).
- Visual configuration tool for ease of use.
- Customizable data templates to fit client needs.
- Auto-validation of incoming data against templates.
- Preview incoming data before applying changes.
- Supports template version control for audits.
- Ensures data integrity with real-time validation.
- Compatible with all integration channels.





Manual override with checker

- Provides a flexible override mechanism for manual corrections with checker.
- Quick setup with minimal configuration effort and comprehensive reporting.
- Allows user to address exceptions in the process.
- Built-in checker functionality for all maker actions.
- Automates identification of consolidated entries.
- Maps incoming breakup data to consolidated entries.
- Auto-validation of incoming data against templates.
- Ensures smooth processing despite discrepancies.
- Reduces manual intervention with automated exception detection.
- Enhances data consistency and accuracy.
- Detailed logs for auditing and compliance.





Outcome

80%

Reduced bank statement processing time by 80%, completing tasks automatically compared to manual activity previously.

90%

Enhanced data accuracy by 90%, minimizing errors.

100%

Improved compliance with audit logging, ensuring 100% traceability for all transactions.

1.5M

Reduced operational costs saving approximately Rs. 15,00,000 annually.





Product Portfolio:



Enterprise-quality data exchange solution with real-time reliability, auditable access control, and secure transfer between heterogeneous system



Efficient reconciliation solution for financial institutions to increase control, reduce costs, and optimize fund utilization.



24/7 data transformation engine with flexible processing of header-based files, multi-line records, and more for accurate data integration.



Mobile/tablet app for customer acquisition, on boarding, and account activation for a faster, smoother experience.



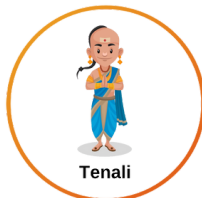
Comprehensive Multi-Channel Banking Platform

A one-click solution for SME and corporate customers to access all business banking services from mobile, tablet, iPad, and wearable devices.



Doorstep Delivery System

A secure, efficient and automated door-step delivery system for Cash Management Services offered by banks, with real-time tracking.



Tenali: AI-powered banking platform by Credentek & OpenAI, streamlining interactions, personalized insights, and seamless integration for future-ready banking.



Kitty: AI-powered multi-threaded chatbot for real-time banking assistance, enhancing engagement and delivering tailored solutions.





Bank Statement Automation Journey Begins Here

Thank you for exploring "StatementHive" bank statement automation platform. Each component is designed with passion and precision.

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