

# IBM Financial Transaction Manager for ACH Services

## IBM Redbooks Solution Guide

Automated Clearing House (ACH) payment volume is on the rise. NACHA, the electronic payments organization, estimates that ACH payments surpassed 21,000,000,000 in 2012. Financial institutions, businesses, and consumers are all contributing to a significant increase in direct electronic payments and causing a dramatic shift in the requirements for ACH processing. As result, financial institutions are re-evaluating their current payment platforms. Many have infrastructures in place that were not designed to handle high volumes of processing while still meeting the ever-changing needs of their customers and managing risk and compliance.

Customers are demanding improved information access to their payments, whether they are online, mobile, or using a traditional outlet. In addition, requirements for more open and visible transactions have created demand for new capabilities, such as near real-time payment status visibility, automated exception handling, and same-day processing. Along with higher customer expectations, financial firms are being tasked with reducing costs and offering new services to create additional revenue. At the same time, they must reduce financial risk. A single view of all types of customer payments can help them address these issues.

Gaining value from existing assets that are part of a complex web of unconnected transactional systems (see Figure 1) can be a significant challenge. Aging core transactional systems that are built on COBOL and assembly language technologies are costly to maintain, difficult to upgrade, and unaware of more than a single transaction type. Skills attrition can also be an issue for older platforms that are not in common use today. This IBM® Redbooks® Solution Guide describes how IBM Financial Transaction Manager for ACH Services can help address these challenges.

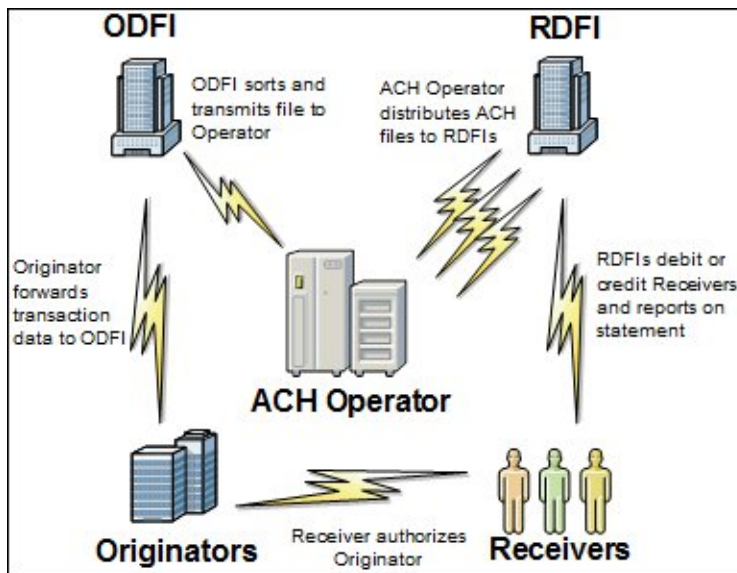


Figure 1. NACHA overview

## Did you know?

IBM offers a number of key differentiators in the financial transaction management area, including the following items:

- IBM offers an overall holistic payments platform, IBM Financial Transaction Manager, that supports pre-built IBM solutions supporting true payments convergence. These solutions include Corporate Payment Services (CPS), Single European Payment Area (SEPA), ACH, and Check Services.
- Embedded middleware for better price points, and unmatched feature functions in the IBM delivered solution (for example, database, application server, and message mapping (including a development studio)).
- The IBM payments platform is open, enabling (in addition to the pre-built IBM solutions) client built solutions and an IBM Business Partner ecosystem for third-party built solutions.
- Rules-based solution for validation, enrichment, routing, delivery schedules, receipt schedules, and so on.
- Support for batch payments and real-time payments simply by adjusting rules (rather than modifying an underlying architecture).

## Business value

Virtually all financial institutions have multiple systems to process payment, trade, and securities messages. These systems have evolved over years or even decades and were implemented to be efficient at processing the needs of a particular department, function, or customer set. With so many systems evolving at different times, paces, and purposes, process duplication inherently exists. Duplication and inconsistent processes create workflow friction, slowing client relationships and time to market. Because of this duplication, and the existence of monolithic applications, redundant gateways, and numerous connections, payment systems can represent a higher percentage of expenses than revenue to a financial institution. The situation calls for strong pressure to reduce costs because the increasing transactional volume might be unable to compensate for the revenue/cost differential.

Although internal pressures grow, financial institutions face increased pressure from nontraditional competitors who offer only niche products and services and lack the heritage that established financial institutions must maintain. Additionally, clients might exert pressure to have services added, modified to their own requirements, or to add new outlets that could never have been conceived during the original system implementation years or decades ago.

IBM Financial Transaction Manager provides an enterprise business-oriented view of payment and securities messaging that can be modified and reused as your needs change and competition morphs. Modeling facilitates the renovation and justifies each change along the way. IBM incorporates industry standards, including ISO message formats and service-oriented architecture (SOA).

Implementing Financial Transaction Manager for ACH Services has the following benefits:

- Is agile in reaction to change
- Provides visibility of payments processes at design time and run time
- Integrates service components that are built, bought, or both
- Facilitates renovations by wiring together reusable service components
- Reduces the cost and impact of change
- Reduces the cost of testing additional applications with external networks

- Enhances liquidity management monitoring and control
- Reduces cost by enabling payment efficiencies and reducing system duplication
- Improves customer satisfaction with faster time to market

## Solution overview

IBM Financial Transaction Manager for ACH Services provides pre-built support for processing all ACH transactions that flow through your system, including intake, validation, transaction management, and distribution. A robust rules-based environment handles payment routing and exception management, and an automated import and export facility handles ACH processing rules. Other key functions include administration, process management, data warehousing, and reporting and extracts. The overview of this solution is shown in Figure 2.

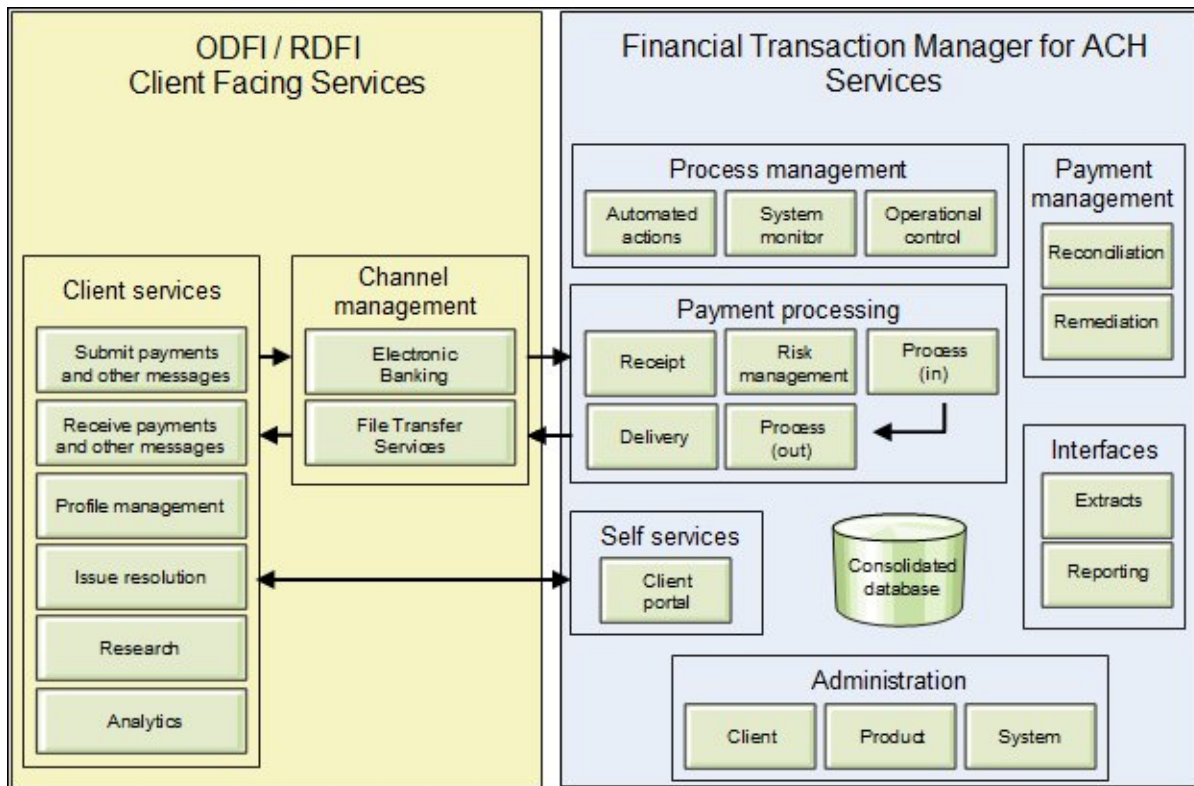


Figure 2. Solution overview

IBM Financial Transaction Manager for ACH Services includes ACH payment processing capabilities, including the following ones:

- Risk services
- Client billing for products and services
- Generation of accounting entries
- Inbound and outbound returns
- Accounts receivable check conversion services

ACH payment receipt capabilities include control total matching, authorization, Notification of Change, and Death Notification Entry management. In addition, it offers the following features:

- Support for receiving and sending files in accordance with the NACHA 2014 operating rules (includes all SEC codes)
- Reference implementations for NACHA file origination and receipt
- Transaction routing and delivery rules for ACH processors, including from one financial institution directly to another
- Documentation for the ACH implementation

## **Solution architecture**

Financial Transaction Manager for Automated Clearing House (ACH) Services has the following features:

- Has prebuilt support for processing NACHA payments from receipt through distribution
- Helps reduce the total cost of operations by implementing ACH payment services within a modern, automated, and service-oriented architecture-based payments platform
- Helps offer increased revenue opportunities through improved client visibility and self-service
- Provides a high-performance, scalable platform to help address client demand for near real-time ACH processing and information access
- Helps offer improved risk management and assists with customers compliance obligations through improved visibility to payment transactions across multiple payment channels

IBM Financial Transaction Manager for ACH Services draws from many common components to provide ACH processing capabilities. The component architecture of Financial Transaction Manager for ACH Services is shown in Figure 3.

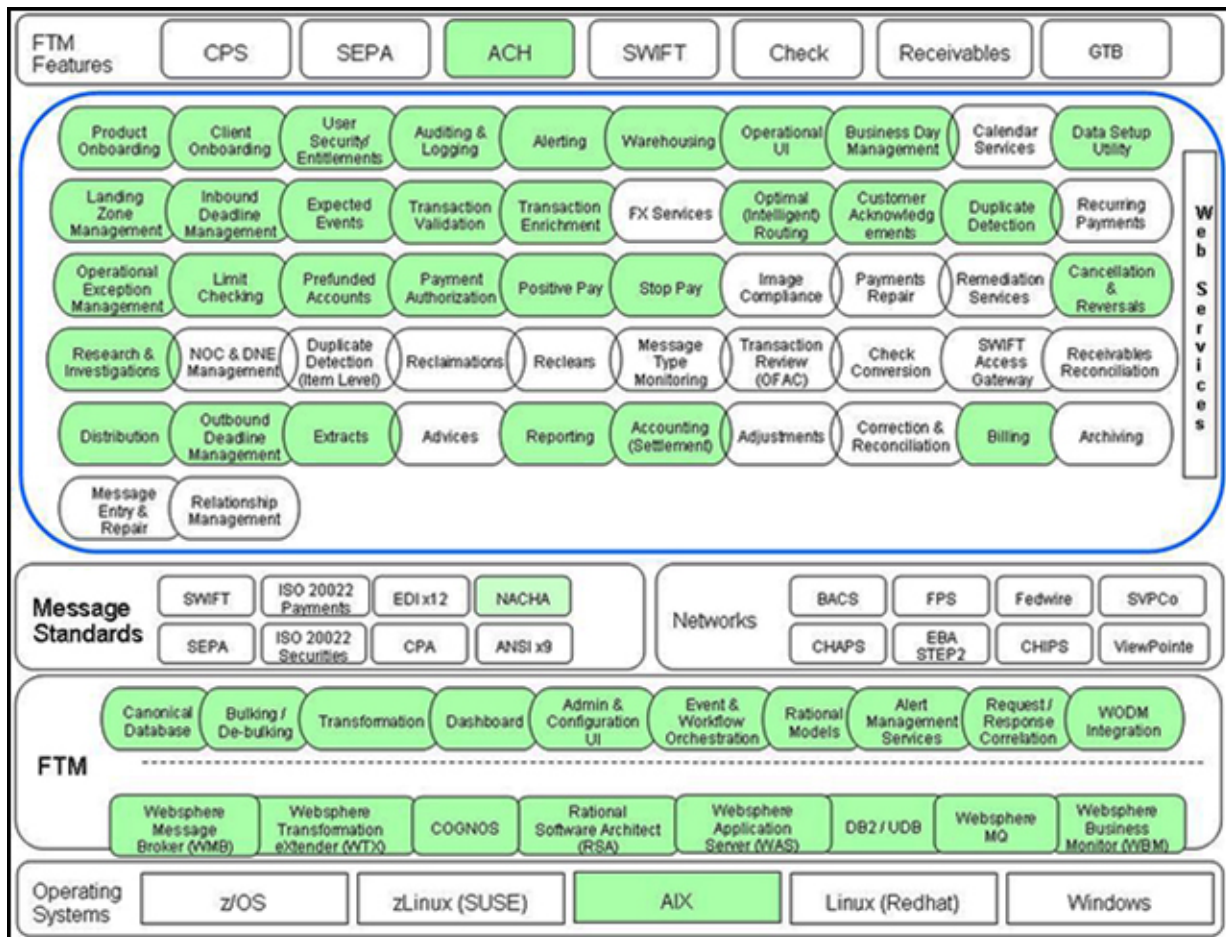


Figure 3. Financial Transaction Manager component architecture

## Usage scenarios

Here are some scenarios where you can use IBM Financial Transaction Manager for ACH Services:

- Capability to receive and send NACHA files with support for all SEC codes.
- All inbound files are validated in accordance with the NACHA operating rules.
- Reference implementations for NACHA file origination and receipt.
- Inbound and outbound return item processing in accordance with the NACHA operating rules.
- Partner configuration for defining originators, receivers, third parties, Financial Institutions, and ACH operators.
- File and batch duplicate detection.
- Client Acknowledgements for files received and alerts for select processing events.
- Notification of Change (NOC) and Death Notification Entry (DNE) management.

- ODFI Risk Services, including Account and Partner Monitoring, SEC code authorization, and Control Total checking.
- Protection against unauthorized payments to receivers through the use of Credit and Debit Blocking, Positive Pay, and Stop Payment services.
- Generation of accounting data.
- Generation of billing and fee data for products and services that are offered to customers of the ODFI.
- Sample extracts for customer advice, and DDA, accounting, and billing feeds.
- Comprehensive reports, including customer activity reporting, returned item lists, and notifications of change.
- Extensive web services interface to enable financial institutions to add key features to their Mobile / web portals.

## Integration

IBM Financial Transaction Manager for ACH Services is part of the IBM Financial Transaction Manager offering. The IBM Financial Transaction Manager offering is a set of pre-integrated solutions for visibility and control of payment transactions, liquidity management, financial risk management, financial planning, and performance management (see Figure 4).

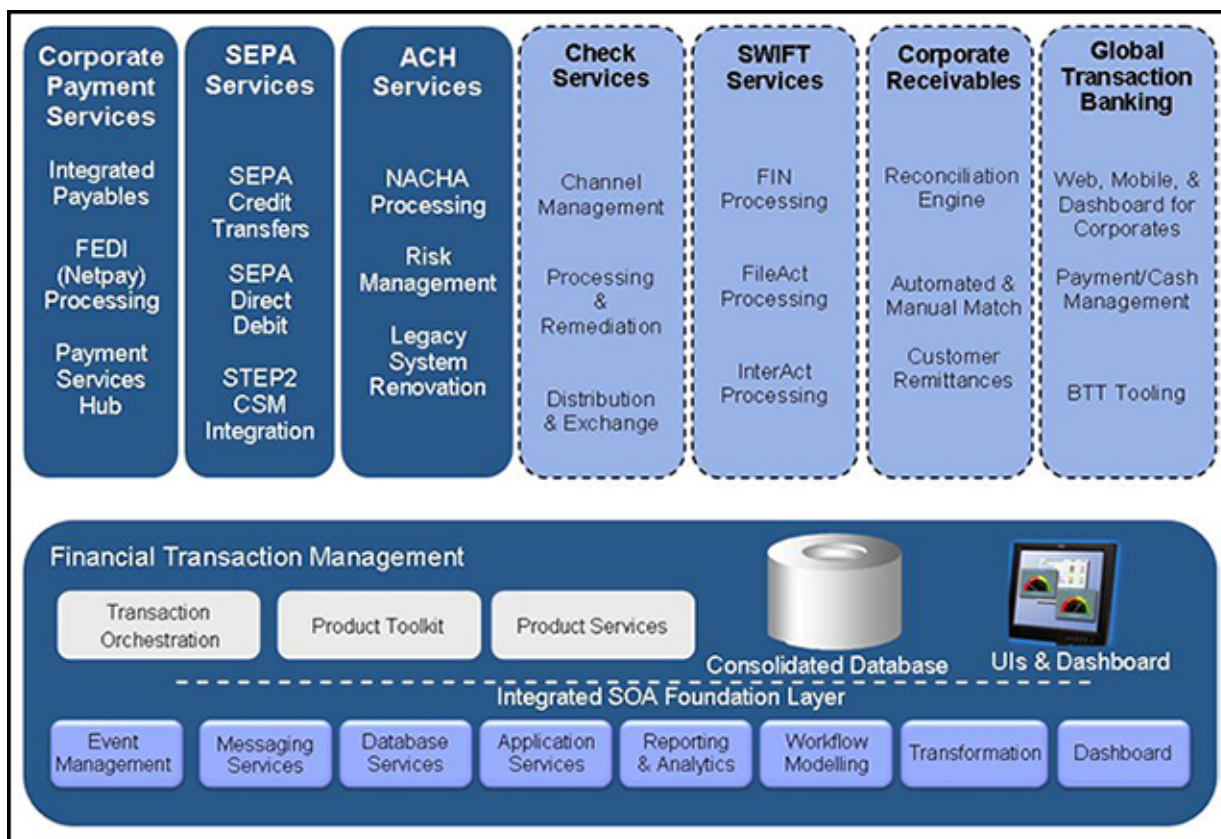


Figure 4. Financial Transaction Manager family

Because IBM Financial Transaction Manager for ACH Services is part of this set of integrated solutions, it has all of the advantages of being part of a single modern payments hub. A common data model for all payment types supports financial transactions, partner profile data, common services, and channel definitions. A common rich repository stores payment data in a standardized message model that is based on ISO 20022. A common prebuilt set of dashboards enables you to monitor business activity that spans payment types with real-time insights and proactive notification.

Built on IBM WebSphere® Application Server, IBM WebSphere MQ, IBM WebSphere Transformation Extender, IBM WebSphere Message Broker, IBM DB2®, IBM Cognos® Business Intelligence, and IBM Business Monitor, the IBM Financial Transaction Manager solution can handle ACH transactions, and SWIFT and SEPA. The solution is extensible, so you can add payment types as you need them and new services in the future. Web services interfaces enable the integration of the solution with various channels, including web and mobile, and administration capabilities enable partner onboarding and maintenance.

## Supported platforms

IBM Financial Transaction Manager runs on IBM AIX®, Linux, Windows, and IBM z/OS® platforms. For detailed system requirements, see <http://www.ibm.com/support/docview.wss?uid=swg27027034>.

## Ordering information

Table 1 shows the ordering information for IBM Financial Transaction Manager.

Table 1. Ordering information

Program number	Program name
5725-F79	IBM Financial Transaction Manager for Multiplatforms V2.0
5655-Y11	IBM Financial Transaction Manager for z/OS V2.0

## Related information

For more information, see the following documents:

- *Financial Transaction Manager Technical Overview*, SG24-8187:  
<http://www.redbooks.ibm.com/abstracts/sg248187.html>
- *Tracking Payments and Securities with IBM Financial Transaction Manager V2*, TIPS0963:  
<http://www.redbooks.ibm.com/abstracts/tips0963.html>
- *IBM Financial Transaction Manager for SEPA Services*, TIPS0993:  
<http://www.redbooks.ibm.com/abstracts/tips0993.html>
- *IBM Financial Transaction Manager for Corporate Payment Services*, TIPS1001:  
<http://www.redbooks.ibm.com/abstracts/tips1001.html>
- IBM Financial Transaction Manager product page:  
<http://www.ibm.com/software/industry/financial-transaction-manager>
- IBM Offering Information page (announcement letters and sales manuals):  
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On this page, enter Financial Transaction Manager, select the information type, and click **Search**. On the next page, narrow your search results by geography and language.



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