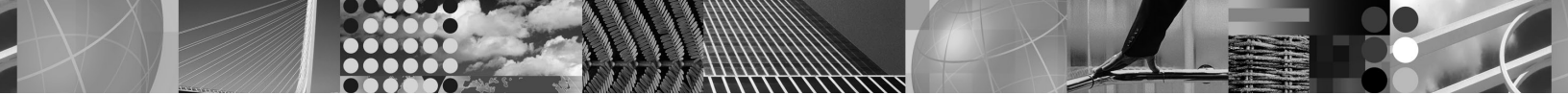WebSphere® software

Increase business agility for banking payment processing with IBM WebSphere Business Services Fabric and IBM Banking Payments Content Pack.
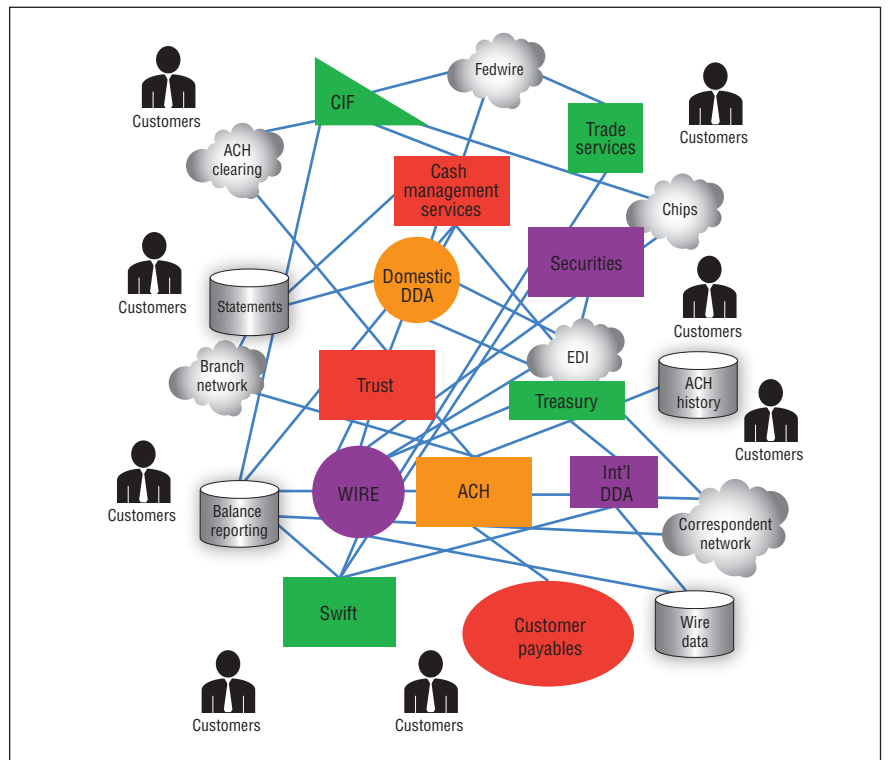
Contents

Overview

To stay competitive — and to stay in business — banks and financial institutions need better solutions to process payment exchange. Existing banking payment operations are often hard to implement and support. Innovation is road-blocked, incremental changes are difficult and maintenance has become a growing burden.

To help address challenges for the banking industry, IBM provides solutions based on business process management (BPM) enabled by service oriented architecture (SOA). IBM WebSphere® Business Services Fabric is a comprehensive SOA offering that delivers dynamic BPM capabilities to assemble and manage composite business applications. WebSphere Business Services Fabric solutions enable end-to-end, life-cycle governance of business services. At the same time, they can extend existing IT capabilities without costly IT system "rip and replace" projects.

IBM Banking Payments Content Pack integrates seamlessly with WebSphere Business Services Fabric and provides a comprehensive set of prebuilt, industry-specific assets to accelerate and enhance payment SOA solutions. IBM Banking Payments Content Pack is also extensible and open for configuration and customization, based on the organization's key business processes.

WebSphere Business Services Fabric and IBM Banking Payments Content Pack–based solutions can enable banks and financial institutions to address regulatory challenges, improve responsiveness, enhance their services and increase their competitive edge.

Existing banking payment systems are often fragmented, rigid and costly to maintain.

Review today's challenges for banking payment processing

Global regulatory and competitive changes have created unique challenges for the banks, financial institutions and other organizations that process payment exchange.

These challenges are not limited by geography, country or business model. In North America, banks face the combined — and sometimes competing — goals of organic growth and profitability. European financial institutions must address the complex changes required by the move to the Single European Payments Area (SEPA). In Asia, institutions are dealing with dramatic enterprise transformations driven by the restructuring of operations costs.

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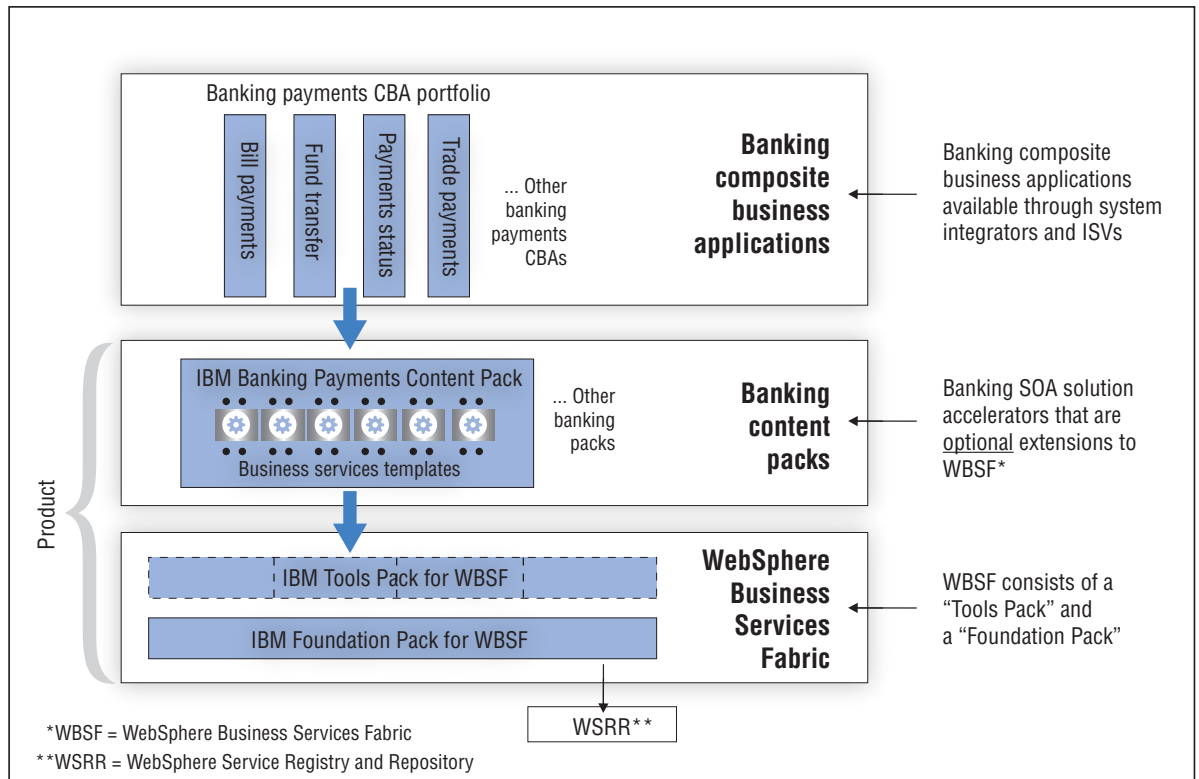
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Maintenance and support are also key challenges in a number of areas, including data warehousing and control points like Office of Foreign Assets Control (OFAC). Other problems involve integrated transactions management in the form of settlements, statements, advices, customer inquiries, history and adjustments. These functions are typically automated only through myriad, complicated, many-to-many connections in the organization's back-end systems.

Today's banking payment operations are often fragmented, complex, inflexible and costly

In short, today's banking payment operations are often fragmented, complex, inflexible and costly. Although existing payment mechanisms can still meet existing customer needs, innovation is road-blocked, incremental changes are difficult and maintenance is a growing burden.

Develop composite business applications with BPM enabled by SOA

To help address challenges for the banking industry, IBM provides solutions based on BPM enabled by SOA. BPM is a discipline combining software capabilities and business expertise to accelerate process improvement and facilitate business innovation. SOA is an enterprise-wide, standards-based integration and development architecture that effectively overcomes differences in platforms, software architecture, languages and network protocols.

By modeling, developing, deploying and managing business processes throughout their life cycles, BPM enabled by SOA can help organizations absorb and manage change more easily. Banks and financial institutions can accelerate critical efforts such as changing operational processes, automating processes, viewing operations in real time and collecting data for analysis and improvement.

WebSphere Business Services Fabric solutions with IBM Banking Payments Content Pack can take banks and financial institutions to the next level of business agility.

Perhaps the most valuable benefit of BPM enabled by SOA is support for composite business applications based on reusable building blocks called business services. Because a business service consolidates business-level usage information into one place for easier discovery and change, it can be easily modified, customized by business context and dynamically executed at run time.

With composite business applications based on BPM and SOA, banks and financial institutions can modify business processes without changing the entire process – all while enhancing the business agility and responsiveness gained from these processes.

Enhance life-cycle management and governance with WebSphere Business Services Fabric

WebSphere Business Services Fabric offers comprehensive SOA that is designed to accelerate the assembly and management of composite business applications. WebSphere Business Services Fabric can help banks and financial institutions personalize and deliver services based on their specific regulatory and business needs.

WebSphere Business Services Fabric offers a full range of components and capabilities for life-cycle management and governance of business services

WebSphere Business Services Fabric offers a full range of components and capabilities for life-cycle management and governance of business services, including:

- A highly scalable, dynamic service selection and delivery engine based on business and user context.
- A centralized repository to store business services and business-level policies in conjunction with IBM WebSphere Service Registry and Repository.
- Management, control and automation of business service entitlements for role-based users and systems.
- Business services visibility and monitoring to manage performance.
- Business policy management and enforcement.

In addition, WebSphere Business Services Fabric extends integration at multiple levels, including:

- Extension of IBM WebSphere Process Server to provide run-time and manage-time capabilities for business services.
- Extension of IBM WebSphere Integration Developer to provide the tooling necessary to assemble business services.
- Integration with WebSphere Service Registry and Repository to source technical Web services metadata used in the assembly of business services.

WebSphere Business Services Fabric also provides a number of enhancements for quality of service and information architecture. These enhancements are designed to deliver:

- Flexibility to change processes and service execution behavior across multiple business processes and disparate IT systems.
- Policy-driven business services to provide customized business functionality based on changing business contexts, thereby improving customer service.
- Accelerated process change and easier ongoing maintenance with business-level policies stored in a centralized location.

Explore the assets and capabilities of IBM Banking Payments Content Pack
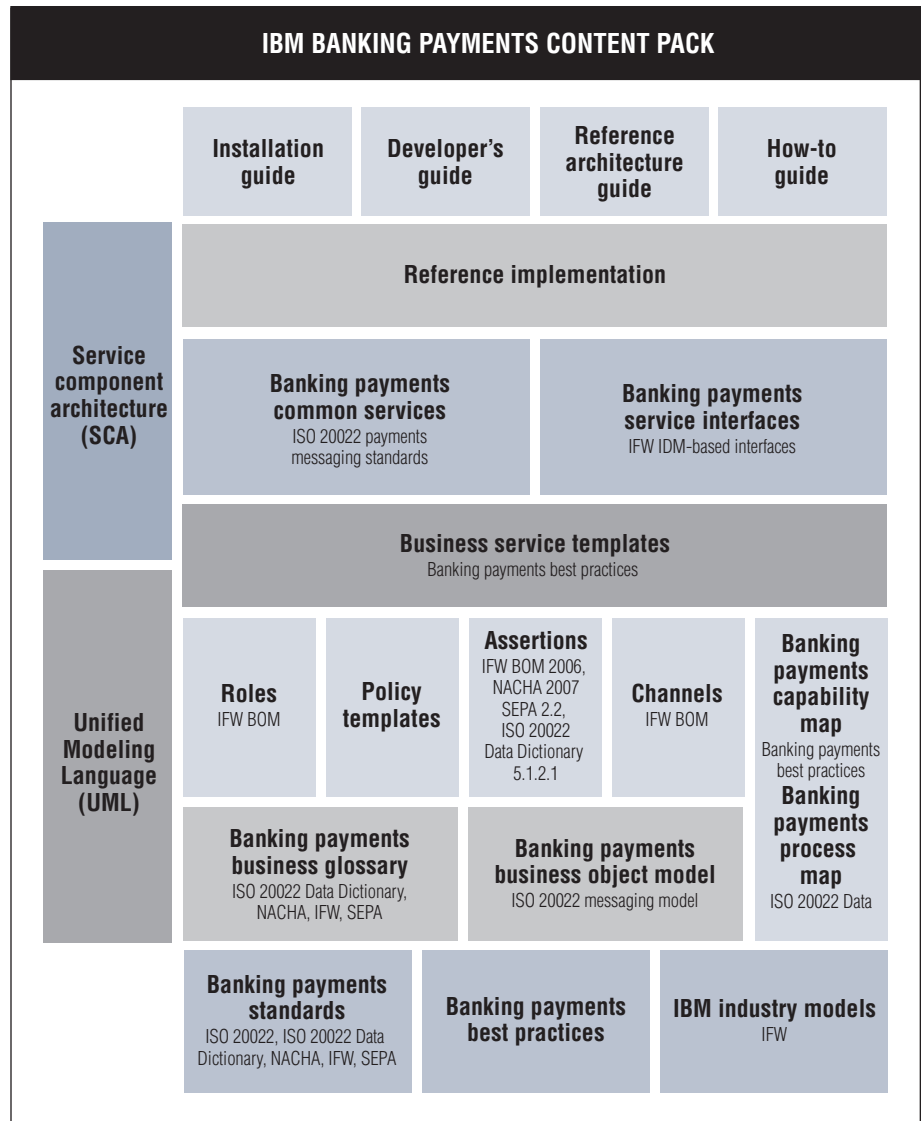
IBM Banking Payments Content Pack contains prebuilt SOA accelerators designed to speed time to market for payments-specific composite business applications. These assets are provided in the form of business services templates, and each asset is fully optimized for use within the banking payment ecosystem.

The combination of WebSphere Business Services Fabric and IBM Banking Payments Content Pack provides a financial institution with the ability to develop its own unique business processes that are configurable, flexible and extensible.

IBM Banking Payments Content Pack supports payment processes using assets based on standards from ISO 20022 (includes SWIFT support), National Agency Clearinghouse Association (NACHA – The Electronic Payments Association), SEPA and the IBM Information Framework (IFW). Included in IBM Banking Payments Content Pack is a large variety of assets designed specifically for financial institutions:

- **Business capability/process maps** — decomposition of banking payments domain into business capabilities and subcapabilities, which are further decomposed into processes and subprocesses. The process definitions are mapped to business services.
- **Business services templates** — payments-specific business services definitions, associated Web services, metadata on roles, channels, assertions and sample business policies.
- **Business glossary** — a common vocabulary of payments terms based on ISO 20022 Data Dictionary, NACHA EDI and SEPA messaging models, and a subset of IFW business object model.
- **Business object model** — an ISO 20022 payments standards–based business object model that represents a logical data model.
- **Service interfaces** — banking payments–specific schemas and Web service interfaces based on a subset of the Interface Design Model (IDM) component of IFW.
- **Common services** — commonly used service implementations based on ISO 20022, SEPA and NACHA payments standards to enable functions like validation, bulking and transformation.
- **Knowledge assets** — documentation and sample implementation scenarios to assist in the consumption and extension of the assets included in the pack.

The reference architecture of IBM Banking Payments Content Pack, shown on the next page, logically expands SOA by promoting loose coupling of assets and thus enables consistency and reuse across business processes. The reference architecture is optimized to industry and technical standards and thus facilitates interoperability across the ecosystem.

IBM BANKING PAYMENTS CONTENT PACK

| Installation guide | Developer's guide | Reference architecture guide | How-to guide |

Service component architecture (SCA)

Reference implementation

Banking payments common services
ISO 20022 payments messaging standards

Banking payments service interfaces
IFW IDM-based interfaces

Business service templates
Banking payments best practices

Unified Modeling Language (UML)

Roles
IFW BOM

Policy templates

Assertions
IFW BOM 2006, NACHA 2007 SEPA 2.2, ISO 20022 Data Dictionary 5.1.2.1

Channels
IFW BOM

Banking payments capability map
Banking payments best practices

Banking payments business glossary
ISO 20022 Data Dictionary, NACHA, IFW, SEPA

Banking payments business object model
ISO 20022 messaging model

Banking payments process map
ISO 20022 Data

Banking payments standards
ISO 20022, ISO 20022 Data Dictionary, NACHA, IFW, SEPA

Banking payments best practices

IBM industry models
IFW

IBM Banking Payments Content Pack for WebSphere Business Services Fabric contains a wealth of "starting points" for an enterprise's business process project. And because these assets are prebuilt based on industry and technology standards, the IT team does not have to start from scratch.

IBM Banking Payments Content Pack also provides extensive globalization capabilities, including pack and documentation support for English, French, Italian, German, Spanish, Brazilian Portuguese, Japanese, Korean, simplified Chinese and traditional Chinese. Additional support is available for region-specific standards (subject to language support) and domain models specific to customers and vendors.[*]

Summary

Payment initiation, payment settlement, fund transfer and vendor payments – these are just a few areas where WebSphere Business Services Fabric combined with IBM Banking Payments Content Pack can help financial institutions increase their agility and responsiveness.

WebSphere Business Services Fabric provides dynamic BPM capabilities to assemble and manage composite business applications. Benefits include the ability to:

- Increase responsiveness to changing business needs through dynamic service selection and policy-driven composite applications.
- Accelerate process change and streamline maintenance through policy configuration instead of coding and redeployment.
- Aggregate business functionality from disparate legacy, third-party, custom and packaged systems to increase service reuse.
- Extend and enhance existing IT capabilities without requiring time-consuming and costly IT system "rip and replace" projects.

IBM Banking Payments Content Pack for WebSphere Business Services Fabric can help:

- Minimize the efforts required to identify, design and develop unique business services across banking payment processes.
- Accelerate the deployment of new banking products and services by extending and transforming historically siloed applications.
- Decrease costs for modernization and maintenance through consistent, reusable assets based on banking and Web services standards.
- Simplify interoperability across disparate applications based on banking payments standards and customer-specific models.
- Expose existing SOA assets to predefined payments-specific business services templates.

Increase business agility for banking payment processing with IBM WebSphere Business Services Fabric and IBM Banking Payments Content Pack.

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Backed by these IBM offerings, today's banks and financial institutions can develop flexible, end-to-end solutions to help them address regulatory challenges, enhance their services and increase their competitive edge.

For more information

To learn more about extending your organization's payment processing platform with WebSphere Business Services Fabric and IBM Banking Payments Content Pack, visit **ibm.com**/software/integration/wbsf

Additional information on SOA is available at **ibm.com**/soa, and a discussion of the IBM WebSphere BPM suite can be found at **ibm.com**/software/websphere. To learn more about IBM Business Innovation and Optimization, visit **ibm.com**/software/innovate

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