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Signature®
Extensive Functionality and Flexibility in an Enterprise-Wide Banking Solution

Signature from Fiserv is a powerful, production-proven, real-time processing platform. Robust, scalable, functionally rich and reliable, it supports all retail financial products and processes.

Value for Your Organisation
Signature delivers a powerful multi-currency and multi-lingual comprehensive retail and commercial banking platform that helps you to increase the quality and effectiveness of your front office and channel interactions by providing a complete picture of customer accounts, relationships and interactions.

Signature is integrated with best-of-breed solutions from across Fiserv for a full enterprise-wide banking solution that delivers extensive functionality to your institution. Signature is highly scalable and is used by mid-tier and large institutions in more than 40 countries.

Key Benefits
- Enables efficient and quick development of new products and services
- Provides better measurement of customer profitability
- Integrates disparate systems and applications via an enterprise services framework
- Preserves the value of your IT investment
- Accommodates mergers and acquisitions
- Services customers through branch, call centre, ATM, IVR or the Internet

Technology
Signature technology requirements will depend on your implementation; outsourced to a Fiserv service bureau or in-house deployment. Either delivery method will give you a highly scalable and secure architecture with a proven reputation for exceptional business resiliency.

Connect With Us
For more information about Signature, email getsolutions@fiserv.com or visit www.fiserv.com.

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Product

**Connected Teller® for Signature®**
Automate Customer Awareness, Campaign Solicitation Prompts and Generate Referrals

Connected Teller for Signature from Fiserv is a smart client application environment that is a complementary companion to Aperio™ from Fiserv. It enables tellers to become an extension of your sales team in the branch, embedding a sales culture throughout your organisation.

**Customer-Centric Interactions**

Connected Teller enables your frontline teller team to become more customer-centric in customer interactions, resulting in a higher level of customer service. It drives sales-related information to the teller desktop so tellers can promote offers and respond intelligently to customer sales inquiries. It empowers tellers to take on a more sales-focused role by providing them with sales capabilities through prompts for customer information and campaigns, referral recognition and customer/financial institution contact records.

Connected Teller includes all the features you need to enable the teller team to become more customer-aware and sales-focussed:

- **Customer awareness**—provides customer data as a supplement to transaction data, enabling the teller to be aware of the individual with whom he/she is dealing
- **Campaign solicitation**—prompts a teller to deliver actionable sales and/or service campaigns
- **Generation of referrals**—enables tellers to spot sales opportunities, initiate conversations and generate leads
- **Engagement history**—allows a teller to see a list of all engagements that have occurred between a customer and the institution, across all channels
- **Significant events**—displays records of events deemed by your financial institution as defining moments in a customer relationship
**Key Benefits**

- Empowers tellers to initiate leads/referrals for opportunities uncovered
- Delivers intelligent prompts to tellers, leveraging the teller as an additional channel to enable a dialogue with customers
- Enables broader CRM capability into teller solutions, allowing for a better understanding of the customer while making the teller aware of any activity throughout the organisation that might be underway with the customer
- Ability to automatically generate workflow and requests for internal and external documents and track receipt of responses

**Connect With Us**

For more information about Connected Teller for Signature, email getsolutions@fiserv.com or visit www.fiserv.com.
Card Management for Signature®
Support for the Complete Lifecycle of the Cards You Issue

Card Management for Signature from Fiserv is a fully integrated card management system that ensures the card services you offer your clients are broad enough to meet all of their needs, but tailored enough to be cost effective for your organisation.

Value for Your Organisation
Card Management for Signature is an end-to-end card management system that supports credit, debit and prepaid products. It is a proven, multinational solution for banks of all sizes that require card issuing and acquiring functionality. The solution features multi-language capabilities (English/Spanish), double currency and chip/contactless support, for in-house processing or in a multi-tenant environment. Card Management supports scheme and private-label card programmes, personal/corporate cards, prepaid, e-commerce (virtual cards), revolving credit and deferred lines of credit, third-party processing and third-party integration. Importantly, Card Management is certified by Visa®, MasterCard® and American Express®.

Key Benefits
- Complete process automation
- Improved operational control
- User-friendly graphical interface
- Flexible product setup and definition
- Multichannel delivery
- PCI compliant and EMV™ ready

Technology
IBM® Power System i (iSeries)

Connect With Us
For more information about Card Management for Signature, email getsolutions@fiserv.com or visit www.fiserv.com.
Product

Communicator® for Signature
Flexible, Open Architecture to Maximise Your Organisation

Communicator for Signature from Fiserv enables disparate applications and systems to speak to one another and to Signature using industry-standard XML messaging based on the Interactive Financial Exchange (IFX) standard.

Open Architecture for a Seamless Solution

Communicator for Signature is intelligent middleware that integrates Signature, Aperio® for Signature and third party front- and back-office applications and systems into an efficient, seamless solution. The open architecture design allows you to maximise your investment in legacy systems and offers the flexibility to incorporate exciting new functionality with agility and certainty.

With proven scalability, Communicator delivers information logically and consistently to any channel, at any time, on any device: 24/7.

Technology:

Communicator is a service-oriented architecture (SOA) framework built on Microsoft.NET.

Key Benefits

- Varied message sets provide access to all customer and account information available through Signature
- Service message sets are available for banking, new customer, new loan, new deposit, account servicing, document management, host, insurance, monetary and pay

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For more information about Communicator for Signature, email getsolutions@fiserv.com or visit www.fiserv.com.
**POSH™**

**Dependable Operation of Complex Transaction Processing Through a Fully Integrated, End-to-End Solution**

POSH from Fiserv gives your organisation reliable handling of transaction processing throughout the entire transaction lifecycle allowing you to stay competitive, fully compliant and secure in the fast-paced payments industry.

**Value for Your Organisation**

POSH is an ATM and POS terminal management, authorisation and switching solution for payment cards and payment transaction systems. From device driving to authorisation support, POSH provides dependable operation of complex transaction processing through a fully integrated, end-to-end product with the entire range of services needed to complete the transaction lifecycle. Multichannel support allows you to acquire, process, clear and settle debit/credit transactions from any source or touchpoint in any format across any network. POSH provides intelligent switching – with transactions routed to multiple hosts based on business rules – and ensures each transaction is delivered successfully to the issuer or network with full compliance; meeting all security standards. The software is EMV™ enabled and PCI PA DSS certified. POSH delivers real-time authorisation with outstanding reliability and security at a reasonable cost.

POSH also features reliable settlement and reconciliation processes that guarantee accuracy and protect business integrity.

**Key Benefits**

- Guaranteed accuracy
- Real-time authorisation
- Fully compliant transaction processing services
- Multiple channel support
- Fully integrated end-to-end product

**Technology**

Windows platform running DB2 database.

**Connect With Us**

For more information about POSH, email getsolutions@fiserv.com or visit www.fiserv.com.
Collections for Signature®
Improve Operations and Efficiencies While Reducing Costs

Collections for Signature from Fiserv automates collections, recovery and tracking of delinquent accounts, charged-off accounts, NSF checks written against accounts, foreclosures, bankruptcies, repossessions, dealers, loan officers and special assets.

Increase Your Collections and Maximise Profitability

Collections for Signature automates correspondence and facilitates standard messages to the client within the system. Powerful collector queuing and management queuing is available with a robust tickler system to serve the user. Executive and management information is provided for required monitoring of the total portfolio’s performance.

With the interface to the transactions module, you can collect your overdrawn DDAs and load all account (loan and DDA) types for collections into one system.

With Collections for Signature, your collection capacity increases (more than doubles from manual collections). Collectors can work more accounts, more aggressively work existing accounts, or perform other responsibilities with new freed collector time (such as working charged-off accounts). Increased productivity reduces operating costs, increasing profits.

IBM i is unsurpassed in reliability, security and scalability of the processor and database management system. By including the ability to get your IBM i data into Microsoft Office products like Excel and Word, the system gives our users the best of both worlds.

Technology:
Collections has IBM i and PC-based components.

Key Benefits
- Reduces past due loan delinquency ratios
- Reduces charge-offs
- Reduces collection costs
- Improves operations
- Reduces training costs

Connect With Us
For more information about Collections for Signature, email getsolutions@fiserv.com or visit www.fiserv.com.
Data Warehouse for Signature®
Optimised Data and Metadata That Is Up-to-Date and Ready to Use

Data Warehouse for Signature from Fiserv is a solution that enables our clients to analyse key Signature data and turn it into information by providing normalised data and metadata in a database separate from the production database.

Database Integrity
Normalised data from Data Warehouse is optimised for reporting and analysis purposes as opposed to the production database, which is optimised for processing high volumes of accounts and transactions. Data Warehouse is fully integrated with Signature, managing the extracts of the relevant data at the right times throughout the processing day to assure that it is a consistent representation of the Signature production database.

Data Warehouse is updated nightly to provide up-to-date operational reporting. The software ensures data integrity—at the table, row or column level—and enforces business rules for data consistency, automatically documenting all rules and transformations in an active metadata repository. More important, Data Warehouse is an accurate representation of the Signature database for that processing day and is updated and extended automatically every processing day.

Technology
- Data Warehouse is installed in a separate partition (LPAR), generally on the same server as Signature
- The OS environment is IBM i
- The database used by the Data Warehouse is IBM DB2 for i

The extract-transform-load (ETL) process is accomplished with HelpSystems’ SEQUEL Data Warehouse, formerly known as RODIN.

Data Warehouse delivers immediate benefits by providing data and metadata structured to allow the building of standard reports and dashboards through commercially available data mining and reporting solutions.

Key Benefits
- Fully integrated with Signature
- Built-in mapping to Signature
- Utilises a very rich data warehouse designed specifically for retail and small and medium enterprises (SME) banking
- Isolated from the production database
- Can be enterprise level with data from multiple platforms and sources with an optional extension to the extract, transform, load (ETL) tool

Connect With Us
For more information about Data Warehouse for Signature, email getsolutions@fiserv.com or visit www.fiserv.com.
CorPoint®: Deposit Manager
Strengthen Your Customer Relationships and Generate New Revenue Opportunities

Value for Your Organisation
CorPoint: Deposit Manager improves cash flow and availability, simplifies in-store cash operations, reduces the number of transportation services, eases reconciliation at both the cashier and deposit level, and decreases risk for the merchant customer. It is designed to strengthen your institution’s merchant customer relationships while providing increased revenue opportunities.

Technology
CorPoint: Deposit Manager is a Web-based application.

This list sets out the minimal software and hardware requirements for Deposit Manager. Requirements may vary based on customer’s security, performance, scalability, availability and reliability needs.

Client Software
- Microsoft Internet Explorer 9 or higher
- Adobe Acrobat Reader version 9 or higher

Key Benefits
- Seamless integration with your financial institution
- Simplified deposit tracking
- Supports any type or number of certified smart safes
- Sophisticated online reporting
- Available as a standalone or hosted solution

Application Server
- Microsoft Windows Server 2008 R2, Standard or Enterprise edition
- Oracle Solaris 10 or Red Hat Linux 5.6
- 4 cores 2+ GHz, 20 to 40 GB storage, 8 GB RAM

Database Server
- Microsoft SQL Server 2008 R2 or 2012
- 8 cores 2+ GHz, 60 to 80 GB storage, 32 GB RAM

Web Server
- Microsoft Windows Server 2008 R2, Standard or Enterprise edition; Solaris 10 or Red Hat Linux 5.6

CorPoint: Deposit Manager from Fiserv enables your institution to offer a range of fee-based cash deposit services. It can be configured in ways that track and manage merchant deposits and can be integrated with your vault processor – or can accept remote currency capture data feeds from almost any smart safe to provide merchants with online deposit histories 24/7.
• Microsoft Internet Information Server (IIS) version 7 or 7.5; Apache 2.2, IBM HTTP
• 2 cores 2+ GHz, 10 to 20 GB storage, 4 GB RAM

Report Server for Performance View:
• IBM Cognos 10.2.1
• 4 cores 2+ GHz, 120 to 160 GB storage, 8 GB RAM

Batch Server
• 4 cores 2+ GHz, 20 to 40 GB storage, 8 GB

Industry Accolades
Fiserv is named one of the World’s Most Admired Companies by Fortune magazine.

Connect With Us
For more information about CorPoint: Deposit Manager, email getsolutions@fiserv.com or visit www.fiserv.com.
CorPoint®: Order Manager
Simplify Currency Management for Your Merchant Customers

CorPoint: Order Manager from Fiserv is a flexible remote cash capture solution that streamlines, automates and simplifies currency management by enabling currency ordering through an automated telephone system or online Web portal.

Key Benefits

- Time savings for your customers with self-service user management
- Convenience for your customers with a single point of access for cash orders
- Immediate intelligence with automated management reports and dashboards
- Deployment options that fit your needs

Value for Your Organisation

CorPoint: Order Manager provides convenient Web-based, automated telephone cash orders with order and deposit history available 24/7 through a Web portal. It enables your merchant customers to be more efficient, controlled and cost-effective in their cash operations. Order Manager can be configured to automatically verify merchants’ credit limits and balances before cash is shipped, forecast order amounts, post debit entries to merchants’ accounts, track deposits and electronically pass order details to cash vault operations and armoured truck providers for delivery.

Technology

Overview

Order Manager is a Web-based application.

Configuration Requirements

This list sets out the minimal software and hardware requirements for Order Manager. Requirements may vary based on customer’s security, performance, scalability, availability and reliability needs.

The solution should be installed onto dedicated hardware where:

- Application servers are separated from data-storage servers
- Application servers are clustered
- Data is persisted into a disk array
- Data backups or replicates are maintained

Virtualisation of application components is also supported. Fiserv will recommend specific hardware configurations adapted to your business requirements.

Industry Accolades

Fiserv is named as one of the World’s Most Admired Companies by Fortune magazine.

Connect With Us

For more information about CorPoint: Order Manager, email getsolutions@fiserv.com or visit www.fiserv.com.

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Device Manager™
Deliver Improved Results and Minimise Costs
While Keeping Your Devices in Top Working Order

Device Manager from Fiserv simplifies the end-to-end management of all your institution’s self-service devices from detecting and resolving a problem to dispatching service personnel.

Key Benefits
- Increased availability of self-service devices
- Real-time tracking statuses
- Automated vendor management tracks performance
- Deployment options that fit your needs

Value for Your Organisation
Device Manager provides robust, critical device management capabilities that automate the end-to-end process from problem detection to resolution for the entire self-service device network (ATMs, Smart Safes, Cash Recyclers). Device Manager is an event-driven, problem management system designed to receive, analyse, respond to, and manage critical self-service device information. With up-to-the-minute transaction data and business intelligence, it increases device and network availability through improved fault management, service management and proactive troubleshooting.

Technology
Overview:
Device Manager is a Web-based application.

Configuration Requirements
This list provides minimal software and hardware requirements for Device Manager. Requirements may vary based on individual security, performance, scalability, availability and reliability needs.

Client Software
- Microsoft Internet Explorer 9
- Adobe Acrobat Reader 9 or higher

Application Server
- Oracle WebLogic 10.3, IBM WebSphere 8.5, JBoss 5.1 or 7
- Microsoft Windows Server 2008R2, Standard or Enterprise Edition
- Oracle Solaris 10 or Red Hat Linux 5.6
- 4 cores 2+ GHz, 20to40 GB Storage, 8 GB RAM
Database Server
- Microsoft SQL Server 2008R2 or 2012
- 8 cores 2+GHZ, 60 to 80 GB storage, 32 GB RAM

Web Server
- Microsoft Windows Server 2008 R2, Standard or Enterprise Edition, Solaris 10 or Red Hat Linux 5.6
- Microsoft Internet Information Server (IIS) version 7 or 7.5, Apache 2.2, IBM HTTP
- 2 cores 2+GHz, 10 to 20 GB storage, 4 GB RAM

Batch Server
- 4 cores 2+ GHz, 20 to 40 GB storage, 8 GB RAM

Report Server
- IBM Cognos 10.2.1
- 4 cores 2+ GHZ 120 to 180 GB storage, 8GB RAM
- GHz, 120 to 160 GB storage, 8 GB RAM

Industry Accolades
55 million consumers use Fiserv-powered online banking services.

Connect With Us
For more information about Device Manager, email getsolutions@fiserv.com or visit www.fiserv.com.
Integrated Currency Manager™
Automatically and Accurately Forecast Customers’ Cash Demands at Every Type of Cash Point

Integrated Currency Manager from Fiserv offers robust, Web-based currency forecasting that addresses the dynamic supply chain requirements of supplying, managing and transporting currency across multiple cash points and locations. The solution has been helping customers worldwide, since 1997, reduce holdings and costs associated with supplying currency to their customers while ensuring the highest levels of availability.

Value for Your Organisation
Integrated Currency Manager accurately forecasts cash demand for all cash point types, reducing cash levels 20 to 40 percent while optimising cash related costs. The system automates the cash management process from start to end, freeing up branch staff to focus on servicing customers. Sophisticated analysis and business intelligence reporting functionality delivers a centralised view of currency activity across the enterprise, allowing organisations to quickly adjust to shifts in demand, ensure customer satisfaction and maximise profitability. With a secure and scalable Web-based design, the system allows organisations to offer value-added currency supply chain management services to respondent banks, partners or corporate customers.

Technology
Overview
Integrated Currency Manager is a Web-based application that can be deployed in-house or in a Fiserv-hosted environment.

Configuration Requirements
Specific hardware and software requirements vary based on customers’ security, performance, scalability, availability and reliability needs. High-level solution architecture includes:

- Application server
- Database server
- Web server
- Batch and Report server

Connect With Us
For more information about Integrated Currency Manager, email getsolutions@fiserv.com or visit www.fiserv.com.

Fiserv is driving innovation in Payments, Processing Services, Risk & Compliance, Customer & Channel Management and Insights & Optimization. Our solutions help clients deliver financial services at the speed of life to enhance the way people live and work today. Visit fiserv.com and fiserv.com/speed to learn more.

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Product

Device Manager: Terminal Connect
Efficiently Manage Your Entire Self-Service Network

Terminal Connect optimises self-service network monitoring for hardware, software and platform components across all devices.

True Switch and Vendor-Independent Monitoring
Terminal Connect enables direct communication between the Device Manager system and network devices, providing flexible data collectors for most types of devices and manufacturers. There is no need for complex mainframe development, which simplifies device transitions and migrations. And, because it is Java-based, it is virtually platform agnostic. Further, Terminal Connect expands the traditional monitoring capabilities of most hardware-focused solutions by supporting monitoring of operating system event logs and application logs, as well as platform elements such as memory and CPU monitoring.

Comprehensive Monitoring, Measurement and Management
Using Terminal Connect, you gain enhanced device monitoring, performance measurement and service dispatch that provides management throughout your network—helping you prioritise, manage and monitor activity across multiple vendor relationships and software platforms. This all-inclusive solution provides standards-based, multi-vendor management of software components, as well as monitoring and management capabilities needed to efficiently keep your self-service network operational.

Simplified Device Management
In addition to true device and software monitoring, Terminal Connect can also send data back to any device on the network in order to update marketing content, patches and to manage other information as needed. This provides a vendor-agnostic, consistent solution for updating content on self-serve devices across your entire network. Working directly from your workstation, you can use existing terminal groupings to determine which devices receive content upgrades.
Leverage the Power of Data
The central reporting database helps you to easily create and share custom reports and analytics to make quick decisions using Performance View™ from Fiserv business intelligence reporting tools.

Connect With Us
For more information about Device Manager: Terminal Connect, email getsolutions@fiserv.com or visit www.fiserv.com.

Key Benefits
• Enables direct connection of self-service terminals, including ATMs, kiosks, passbook printers, cash recyclers and smart safes to Device Manager
• Offers remote diagnostics and resolution capabilities, reducing the need for onsite technicians
• 20% reduction in on-site visits and increased device availability with remote resolution
• Monitors hardware, software and the solution’s platform components on the device itself
• Provides content management and delivery for updated visuals and marketing campaigns, regardless of device or manufacturer
Corillian Online®
Meet the Expectations of Your Customers and Drive Value to Your Bottom Line

Corillian Online from Fiserv delivers an integrated online banking experience that incorporates the most commonly used functionality. It provides your customers the all-on-one-page capability of managing their finances in the way they prefer and expect.

Value for Your Organisation
Online banking is a primary destination most consumers turn toward to manage their money. Financial institutions must offer an online banking experience that measures up to the expectations of this expanding segment of business. There are numerous online banking offerings in the market today, but none of these offerings deeply integrate online banking, payments and personal financial management (PFM) tools into the same interface as seamlessly as Corillian Online.

Corillian Online intuitively and optimally integrates best-of-breed money movement capabilities – such as internal and external transfers, person-to-person payments, bill payment, same day payments and aggregation of external accounts – into a superior online banking experience. The ability for consumers to access financial overview information, initiate transactions and review them all from one page provides a superior user experience that deepens the relationship the customer has with a financial institution and leads to increased adoption of services and enhanced retention.

Technology
Corillian Online utilises open architecture that assures it is specifically engineered for future flexible integration. Whether the technology is developed by Fiserv, in-house developers or a Fiserv-certified technology partner, the flexibility of the system ensures that leading-edge enhancements can be incorporated across the enterprise.

Corillian Online is available as licenced on premise using Microsoft® .NET and SQL.

Connect With Us
For more information about Corillian Online, email getsolutions@fiserv.com or visit www.fiserv.com.
DigitalAccess
Meet the Needs of Today’s Digital World With a Broad Range of Functionalities That Is Readily Deployable

DigitalAccess from Fiserv helps financial institutions deliver the full range of digital banking and payment services today’s consumers demand – quickly, securely and effectively.

Value for Your Organisation
DigitalAccess is a single solution for retail and business banking on a single digital platform for Web, mobile and tablets. It is an omnichannel, out-of-the-box digital banking solution aimed at banks looking to grow or kick off their digital banking offering. This ‘packaged’ banking solution allows a quick time to market with a configurable user experience across devices and channels. It offers full online functionality with 80 percent functionality available on mobile and tablet across Apple, Android and Microsoft Windows.

Technology
DigitalAccess taps the latest technologies in order to achieve a truly seamless customer experience across channels.

JEE Application Server
• IBM WebShere 8.5.5 or later
• Red Hat JBoss/ Wildfly 7.x / 8.x
• Oracle Weblogic 12c or later

Key Benefits
• Offers a single solution for all electronic banking needs
• Lower cost of ownership using existing technology investments
• Highly configurable; reduces time to market
• Rich, intuitive user interface
• Industry-standard security layers ensure data protection

Layered Architecture
• MVC framework, separated layers
• ORM persistence layer
• Integration layer (DigitalAccess Connectors)
• SPA MCV app for modern browsers
• Framework for component-based UI
• Standard Android, iOS and Win8 guidelines and MVC frameworks
• Widget / component-based framework
• Javascript MVC Application (AngularJS), HTML / CSS
• AJAX / REST
• iOS/ Objective C, Android/Java, Windows 8/C#

Connect With Us
For more information about DigitalAccess, email getsolutions@fiserv.com or visit www.fiserv.com.

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Micronotes® Cross-Sell™ for Digital Channels
Improve Cross-Selling Results by Conducting Targeted Sales Interviews Where Your Customers are Banking – Online

In partnership with Micronotes, Fiserv offers Micronotes Cross-Sell for Digital Channels, which combines advanced data analytics with the closing power of sales interviews to generate more actionable cross-sell leads, leverage your online banking platform and drive revenue growth.

Value for Your Organisation
Micronotes Cross-Sell produces extraordinary results compared to traditional online advertisements. Typical results include a one percent click through rate from 93 percent of online users – 10 times the click-through results of most banner ads. Fifty-eight percent of customers who complete an interview accept an offer and become qualified leads, while 20 percent of leads are converted into sales. This level of performance has translated into U.S. $20 of measurable value (interest income, non-interest income and operational savings) per online customer per year across all types of products.

Key Benefits
• Reduces costs through efficient, automated lead generation
• Drives revenue and improves retention
• Improves decision-making at the management level
• Improves customer satisfaction though meeting their needs in a more relevant, personal way
• Drives deeper banking relationships

Technology
Micronotes Cross-Sell was developed and is deployed on standard Microsoft technologies (Visual Studio 2013, .NET, C#) and is typically installed as a Micronotes hosted solution:
• Micronotes Cross-Sell is integrated into online banking using a Micronotes-supplied JavaScript inserted into the login and logout landing pages of online banking

Connect With Us
For more information about Micronotes Cross-Sell, email getsolutions@fiserv.com or visit www.fiserv.com.
Mobiliti Edge™
Quickly Implement and Deliver the Most Complete, Mobile Banking Technology Solution in the Industry

Mobiliti Edge from Fiserv helps financial institutions deploy a comprehensive mobile solution that ensures speed to market, and retention of consumer segments that demand mobile access to their finances.

Key Benefits

- Rich out-of-the-box functionality
- Universal access for your customers via any mobile mode
- Consolidated customer care and reporting tools
- Deployment and configuration flexibility
- Multicurrency and multilingual options

Value for Your Organisation

Mobiliti Edge is a natively integrated end-to-end solution that gives your institution efficient entry to provide mobile banking and payments to customers quickly. It has the flexibility to provide options to customise and grow offerings as requirements arise. Flexible deployment options allow for capabilities to be added that align with evolving brands, competitive, and/or line-of-business strategies. For example, mobile banking and payments can be delivered today and real-time alerts can be added later. Mobiliti Edge can evolve as your users, and mobile channel grow.

The rigorous security standards of Mobiliti Edge are also designed to complement your existing security infrastructure.

Industry Accolades

Mobiliti Edge was named “Best-in-Class” in all four categories in the CEB TowerGroup Mobile Banking Solutions Technology Analysis, December 2013. Javelin Strategy & Research named the solution “Best-in-Class” for mobile banking customisation and The Asian Banker awarded it the “Best Mobile Banking Project” award.

More than 2,100 financial institutions worldwide, including many of the top 100 banks and credit unions, use one or more Mobiliti products.

Technology

Microsoft .NET and Microsoft SQL 2005 as on-premise, dedicated/hosted and ASP.

Mobiliti Edge is developed and deployed on standard Microsoft technologies. Mobiliti Edge has been architected from the ‘ground up’ using Microsoft .C#/.Net development tools.

Mobiliti Edge is typically deployed on:
- Windows Server 2003/2008 (R2) as the operating system
- Microsoft SQL Server 2005/2008 as the database server
- IIS for access to Internet services
- Any standard industry hardware that supports Windows-based infrastructure
Mobiliti Edge is built on scalable architecture to handle even the largest financial institution’s requirements.

- Scalable vertically and horizontally
- Flexible, pluggable architecture that allows rapid integration therefore speed to market
- An SDK to allow customers to develop aspects of the apps themselves
- Full native experience for the apps and support for HTML hybrid should the customer choose
- ASP.NET MVC for mobile Web

Connect With Us
For more information about Mobiliti Edge, email getsolutions@fiserv.com or visit www.fiserv.com.
Product

Mobiliti Enterprise™
A Complete Mobile Solution for Banking, Alerting and Payments

Mobiliti Enterprise from Fiserv is an extensible, highly configurable, mobile banking, alerts and payments solution that gives your financial institution complete control over what is offered and how those services are provided.

Value for Your Organisation

Mobiliti Enterprise is a highly configurable solution that can be integrated into your financial institution’s existing infrastructure regardless of the institution’s host, account processor, online or payment systems. It provides the flexibility to choose how phases are delivered and whether they are delivered by dedicated, project or local support teams.

Mobiliti Enterprise architecture can be tailored to meet your specific requirements and has the ability to deliver differentiating functionality. Now you can deliver the most comprehensive breadth of transactions services today to retail and business customers.

Key Benefits

• Provides powerful standard features, analytics and diagnostics tools
• Delivers the most complete mobile payments offerings
• Provides the flexibility to choose how your initiatives are delivered
• Provides integrated customer care, online and offline enrollment tools

Technology

Mobiliti Enterprise is developed and deployed on standard Microsoft technologies. Mobiliti Enterprise has been architected from the ‘ground up’ using Microsoft .C# / .NET development tools, and is typically deployed on:

• Microsoft Windows Server 2003 / 2008 (R2) as the operating system
• Microsoft SQL Server 2005 / 2008 as the database server
• Microsoft IIS for access to Internet services
• Any standard industry hardware that supports Windows-based infrastructure
Mobiliti Enterprise is built on scalable architecture to handle even the largest financial institution’s requirements.

- Scalable vertically and horizontally
- Flexible, pluggable architecture that allows rapid integration therefore speed to market

- An SDK to allow customers to develop aspects of the apps themselves
- Full native experience for the apps and support for HTML hybrid should the customer choose
- ASP.NET MVC for mobile Web

**Industry Accolades**

More than 2,100 financial institutions worldwide, including many of the top 100 banks and credit unions, use one or more Mobiliti products.

**Connect With Us**

For more information about Mobiliti Enterprise, email getsolutions@fiserv.com or visit www.fiserv.com.
Mobiliti Reach™
Mobile Banking and Payment Solutions That Spur Growth in Emerging Markets and Existing Customers

Mobiliti Reach from Fiserv enables banks in emerging, rapidly evolving economies to deliver a complete and carrier-independent mobile banking and payments solution. Mobiliti Reach helps organisations to lead the way in reaching existing banked customers, and new unbanked and underbanked consumer segments.

Value for Your Organisation

Mobiliti Reach goes beyond the mobile interfaces and includes a complete set of tools that enable you to make your mobile channel successful; including enrolment, customer care, security management, reporting and diagnostic capabilities, which you need to meet internal and regulatory obligations.

You maintain ownership and control over the user experience and functionality with fully configurable Mobiliti Reach, whether you need just one component of the solution, such as person-to-person (P2P) payments, an entire package solution, or a more complex customised approach, Fiserv can deliver the options you need.

The Mobiliti suite of offerings from Fiserv is one of the fastest-selling mobile channel solution in the world and the preferred solution for more than 2,100 financial institutions, including many of the top 100 banks and credit unions.

Industry Accolades
Mobiliti Reach is ranked No. 1 in security by Javelin Strategy & Research.

Technology
Mobiliti is developed and deployed on standard Microsoft technologies. Mobiliti has been architected from the ‘ground up’ using Microsoft’s .C# / .Net development tools. Microsoft .NET and Microsoft SQL 2005 available as on-premise, dedicated/hosted and ASP.
Mobiliti is typically deployed on:

- Windows Server 2003 / 2008 (R2) as the operating system
- Microsoft SQL Server 2005 / 2008 as the database server
- IIS for access to Internet services
- Any standard industry hardware that supports Windows-based infrastructure

Mobiliti is built on scalable architecture to handle even the largest financial institutions requirements.

- Scalable vertically and horizontally
- Flexible, pluggable architecture that allows rapid integration therefore speed to market
- An SDK to allow customers to develop aspects of the apps themselves
- Full native experience for the apps and support for HTML hybrid should the customer choose
- ASP.NET MVC for mobile Web
Electronic Bill Presentment and Payments
Meet the Demands of Your Most Internet-Savvy Customers, Regardless of Your Institution’s Size

Value for Your Organisation

Fiserv offers a proven set of tools created to streamline the design, development, installation, configuration and management of online invoicing systems. We enable companies to quickly deploy a strong and agile foundation for unique online billing and statement delivery initiatives. Your organisation can offer both B2C and B2B solutions off the same platform.

B2C Solution:
- Provide retail and business customers with access to historical account information and statement content to increase customer satisfaction, loyalty and retention
- Increase incremental sales through targeted marketing, cross-selling and upselling

B2B Solution:
- Provide your business customers with an electronic invoice and statement that’s easy to analyse, route and manage
- Offer powerful reporting, business intelligence and online customer self-service capabilities

Key Benefits
- Rapid deployment with the most flexible architecture and development and configuration tools, make it easy to deploy and maintain online self-care solutions
- Lower cost by using existing infrastructure that cuts staff time significantly
- Openness – that is friendly with other platforms and integrates beautifully with your billers’ legacy systems and processes
- Flexibility that supports your choice of hardware, operating systems and database platforms, leveraging what you have and keeping you in your comfort zone
- The only solution that delivers dynamic, interactive billing and statement content to both corporations and consumers from a single, integrated platform

Electronic Bill Presentment and Payments from Fiserv delivers dynamic, interactive billing, invoicing, statement and marketing content to corporations and consumers from a single, integrated platform. This solution provides end-to-end, industry-specific business-to-consumer and business-to-business software and services for e-billing, e-invoicing and e-statement creation, delivery and payment.
Technology

Overview

Electronic Bill Presentment and Payments provides high-quality, high-volume electronic billing and statement applications. It is multi-platform, based on open standards and designed to interoperate with internal billing and archive systems.

Configuration Requirements

Electronic Bill Presentment and Payments uses a layered, modular architecture. The core services are composed of the data extraction engine, data management and presentation services.

The data extraction engine powers data extraction and is composed of multiple statement processors that identify and extract data from various files and sources. Common formats of data inputs are XML, delimited file and line data (fixed width column).

Data management and presentation services are composed of Web-based applications for invoice processing, biller-to-biller relationship management and administration modules. The payment module has a plug-in framework to integrate third-party payment methods, including support for all major payment mechanisms such as direct ACH and credit and debit cards.

Client Software

- Microsoft Internet Explorer 8
- Optional: Adobe Acrobat Reader version 9 or higher; this software is needed when reports are viewed as PDF documents before printing

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For more information about Electronic Bill Presentment and Payments, email getsolutions@fiserv.com or visit www.fiserv.com.
Aperio™
Generate Greater Customer Satisfaction, Stronger Relationships and Profitable Business Growth

Aperio from Fiserv is a cross-channel customer interaction suite that enables customer relationship management (CRM), business process management (BPM) and enterprise application integration (EAI), customer analytics, campaign management and imaging to work in concert, pointing customers towards stronger sales and services.

**Value for Your Organisation**

Aperio integrates and automates business processes, tracks customer interactions across multiple channels, and gives your organisation the information and analytics to proactively make decisions about how to proceed with your customer – based on real-time data. The business process focus of Aperio will provide your staff with the tools to get the job done, instead of worrying about how to do it. This ultimately gives you the power to generate loyalty and increase sales while truly identifying with your customer at a specific moment in time.

Using Aperio technology, your financial institution will see a dramatic upturn in sales volume with consistent personalised customer sales and service across the branch, contact centre and Internet. In fact, thousands of sales prompts are deployed monthly resulting in incremental sales to customers. With enhanced intra-company collaboration, positive ROI is delivered.

**Key Benefits**

- Improved efficiency and increased profit via business process automation
- Enables a single view of your customers: relationships, accounts and interactions
- Provides cross-channel integration to deliver consistency and quality regardless of touchpoint
- Delivers integrated workflows to ensure follow-up between departments
- Provides a flexible architecture that enables fast market and regulatory responses
- Increases outbound sales effectiveness via sales force automation
- Utilises predictive analytics to increase the success of your marketing campaigns
- Improves the effectiveness of cross-channel outbound marketing with integrated campaign management
- Makes every contact an opportunity to sell effectively, service efficiently and generate loyalty

**Technology**

- In-house solution via Microsoft thin client
- Outsourced: resource-managed
Industry Accolades

Aperio has been named a “Best-in-Class” solution in branch operations, enterprise operations and enterprise support by CEB TowerGroup.

Connect With Us

For more information about Aperio, email getsolutions@fiserv.com or visit www.fiserv.com.
Nautilus®
Create, Organise and Control Access for All Types of Content Across Your Business From a Single Interface

Nautilus from Fiserv is a fully integrated enterprise content management suite specifically designed to meet the unique needs of your financial institution. It allows you to control, organise, streamline and structure mountains of documents for easy access.

**Value for Your Organisation**
Nautilus reduces operating costs by streamlining document-related business processes. It also improves document integrity and quality while maintaining governance, compliance and reducing risk.

Nautilus is a highly scalable, open-architected system designed to be cost-effectively deployed in any environment. Low-volume systems can be expanded to high-volume systems, handling millions of documents while maintaining functionality and speed. This scalability makes Nautilus the perfect choice for any financial institution preparing for future growth.

**Technology**
Microsoft QQL Server 2012 is recommended; Oracle 11g Release 2 is recommended; Sybase SQL Anywhere 7.0, 8.0, 9.0, 10.0 or 11.0 is recommended.

**Key Benefits**
- Easy to use, integrate and configure
- Provides secure, scalable and reliable architecture
- Increases collaboration
- Reduces operating costs

These operating systems are supported: Window XP SP3 or later; Windows Server 2003 SP2 or later; Windows Vista SP1 or later; Windows Server 2008 SP2 or later; Windows Server 2997 R2-SP1 or later; Windows 8; Windows Server 2012; Apple Mac OSX v10.6 or later.

**Connect With Us**
For more information about Nautilus, email getsolutions@fiserv.com or visit www.fiserv.com.
AML Risk Manager
Simplify the Compliance Process, Save Time and Gain Peace of Mind

AML Risk Manager from Fiserv delivers unparalleled efficiency by introducing data analytics, more flexible risk management tools, improved link analysis and beneficial ownership tools and improved management reporting.

Real-Time Detection and Risk Mitigation
AML Risk Manager introduces powerful new tools that enable analytics and visualisation, behavioural profiling of any entity including counter-parties, real-time detection and the ability to quantify risk mitigation through investigation to deliver beneficial ownership insight. It increases your operational efficiency with a risk-based approach to satisfy increasing examiner expectations whilst providing unparalleled configurability to keep compliance teams in control.

AML Risk Manager monitors transactions across all accounts held by a customer to understand and detect potential money laundering or terrorist financing through detection scenarios that reflect the risks assessed by your compliance team. It provides a simplified workflow for case management, reduced false positives and easy integration for management and regulatory reporting.

Key Benefits
- Improves suspicious activity detection
- Provides real-time and batch interdiction
- Behavioural profiling of any entity including counterparties
- Superior beneficial ownership capabilities
- Reduces false positives
- Facilitates configurable alert presentation
- Simplifies workflow with comprehensive alert and case management system
- Easily integrates management and regulatory reporting

It offers a comprehensive solution with five key value drivers that differentiate it from other solutions, including:

- Predictive models built upon analysing historical data and joining it with the outcomes of the alert and case review to discover non-obvious transaction patterns indicative of risk
- A know your customer (KYC)-adjusted risk rating that lets analysts review the calculated risk score and based on their knowledge and investigation
- Intuitive new tools to help understand beneficial ownership
- Suspicious activity detection that enables real-time decision-making
• A completely new infrastructure for self-service management reporting and visual dashboarding based on a highly structured data mart

AML Risk Manager gives AML teams a number of immediate productivity boosts along with low implementation risk. AML managers can control the path along which they can re-invent suspicious activity detection for their organisation. And, they can choose if and when real-time interdiction through the CEP engine is appropriate, with the support of Fiserv AML experts, as desired.

**Technology**

Microsoft .NET, Microsoft Windows, Microsoft SQL Server

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**Connect With Us**

For more information about AML Risk Manager, email getsolutions@fiserv.com or visit www.fiserv.com.
Compliance & Fraud Management
Enterprise-Wide, Customer-Centric Risk Management
That Provides Measurable ROI

Next-Generation Detection and Flexibility

Compliance & Fraud Management from Fiserv offers a set of solutions that reside on a common platform featuring an integrated real-time detection engine that breaks free from legacy constraints to deliver advanced integration, modeling, detection and action capabilities. This high-performance common event processing (CEP) engine enables Financial Crime Risk Management Platform from Fiserv to understand the behavior of someone or something across the enterprise, right up to the second that the latest event needs to be adjudicated, in real time. Payments and other events can be held, blocked, challenged or reviewed, while aggregated behavior patterns can also trigger an alert for investigation.

Across the globe, criminals are persistently looking for weak defences that they can exploit for fraud, money laundering, terrorist financing, sanctions violations, tax evasion and more. Facing these challenges, financial crime risk management operations require better and more holistic technology solutions. Fiserv helps more than 1,000 financial services institutions around the world protect themselves against these evolving risks.

Compliance & Fraud Management solutions include:

**AML Risk Manager**

AML Risk Manager builds on more than fifteen years of global AML leadership to enable a new level of efficacy in monitoring, screening, investigating and reporting of potential money laundering activity. The solution introduces powerful new analytics and visualisation, real-time detection, beneficial ownership insight, behavioural profiling of any entity including counterparties and the ability to quantify risk mitigation through investigation. These capabilities deliver operational efficiency with a risk-based approach that satisfies increasing examiner expectations, while providing unparalleled configurability to keep compliance teams in control.

**Cheque Fraud Manager**

Cheque Fraud Manager from Fiserv is based on advanced anomaly detection techniques such as real-time image and transaction-based analytics. These leverage both transaction and non-financial data; dynamic customer risk scoring, and known fraudster/confirmed fraud data and statistics. This delivers increased cheque fraud detection accuracy and real-time capabilities to help financial instructions respond swiftly and effectively to fraud across existing channels and new technologies – including mobile remote deposit capture.
Payment Fraud Manager

Payment Fraud Manager from Fiserv delivers real-time monitoring and interdiction of electronic payments using advanced inference techniques to detect and prevent fraudulent transactions. Payment Fraud Manager monitors electronic funds transfer transactions across many payment and messaging infrastructures such as SWIFT, FEDWIR, SEPA and ACH. Advanced analytics and risk scoring models enable fraud investigators to focus on the highest risk transactions, presenting all of the data the investigator needs at their fingertips in order to determine how to process the suspicious payment. Organisations can rapidly and flexibly adapt strategies to react to and deal with rapidly emerging fraud patterns.

Customer Risk Manager

Customer Risk Manager from Fiserv provides customer-level profiling and risk scoring based on advanced analytics including predictive indicators and non-transactional event information across the entire customer relationship. Organisations can detect relevant changes in a customer’s risk profile before a criminal can complete a transaction such as an account take over (ATO). Customer Risk Manager profiling and scoring can complement other fraud and compliance solutions to increase accuracy and operational efficiency.

Financial Crime Risk Management Platform

Financial Crime Risk Management Platform from Fiserv delivers best-in-class fraud and anti-money laundering (AML) tools through a common platform for detection, alert intelligence, case management and reporting. It includes Watch List Filtering Manager from Fiserv and supports OFAC and other government lists, Accuity’s Global Watchlist and World-Check’s database of high-risk entities. When lists are updated, the platform automatically detects any changes to the list and runs the entire customer and/or transaction database against these modifications.

The solution provides a broad set of capabilities to orchestrate, execute and manage your FATCA programme including; screening new and existing customers for U.S. indicia; determining U.S. taxpayer status and FATCA status through a structured workflow; capturing data fields, statuses and documentation in customer-centric FATCA case files and preparing reports for the IRS as soon as the required reporting formats are known. Importantly, it allows an institution to limit the number of customers for which it has to demonstrate that the FATCA due diligence process has been carried out.

Technology

Solutions within Compliance & Fraud Management and associated solutions execute on current supported Microsoft technology platforms (including Windows, .NET Framework, IIS and SQL Server).

Industry Accolades

Financial Crime Risk Management Platform has been named the Category Leader in Anti-Money Laundering Solutions – RiskTech Quadrant by Chartis, and named Best-In-Class in Financial Crimes Prevention by Aite Group. Waters Rankings has named it Best AML Solution Provider.

Connect With Us

For more information about Compliance & Fraud Management, email getsolutions@fiserv.com or visit www.fiserv.com.
**FATCA Manager**  
Cost-Effective and Efficient FATCA Compliance

Fiserv provides a broad set of capabilities to orchestrate, execute and manage FATCA compliance. FATCA Manager from Fiserv minimises the cost, impact and risk of complying with this the U.S. Foreign Accounts Tax Compliance Act (FATCA) regulations.

**Customer-Centric Transaction Monitoring**

FATCA Manager allows an institution to limit the number of customers for which it has to demonstrate that the FATCA due diligence process has been carried out. Through its customer-centric transaction monitoring capabilities, the solution can apply exemption rules around aggregated asset values and product coverage to return only those customers with U.S. indicia who require further paper/electronic searches and FATCA remediation. This significantly limits the cost and customer burden of executing a FATCA compliance programme, especially for pre-existing accounts whose records may be stored in paper file cabinets and a variety of systems spanning decades.

**Key Benefits**

- A centralised solution for FATCA compliance
- The ability to leverage a single investment in customer, product and transaction data for detection, investigation and resolution
- Specific fields, screens and workflows for a streamlined, consistent, auditable process including the ability to capture (or produce) FATCA-specific documentation
- Access controls to enable investigations for FATCA and other regulations to be shared or segregated depending your institution’s policies

**Technology**

Microsoft .NET, Microsoft Windows, Microsoft SQL Server

**Connect With Us**

For more information about FATCA Manager, email getsolutions@fiserv.com or visit www.fiserv.com.
Accurate™ Reconciliation
Protect the Bottom Line and Mitigate Risk

Accurate Reconciliation from Fiserv helps effect financial control transformation that protects the bottom line and mitigates risk throughout the business for organisations with complex reconciliation challenges.

**Key Benefits**
- Improved operational/financial efficiency
- Mitigation of risk
- Automated compliance reporting with robust internal controls

**Value for Your Organisation**
Today’s increasingly regulated business environment requires robust, scalable and flexible financial controls. As a key cornerstone of the financial close process, end-to-end reconciliation relies on processes, technology and data sources that work cohesively while spanning time zones and geographies. Data must be instantly accessible around the clock or your exposure to operational risk increases. More complex transactions in higher volumes than ever before and the consequences of incorrect financial reporting and non-compliance with Sarbanes-Oxley, Basel II, MiFID and other regulations – along with stakeholder demands for increased transparency, accuracy and accountability – mean the spotlight is firmly back on controlling the reconciliation process.

Accurate Reconciliation manages the transaction process, as a foundation for operational control, business efficiency, risk management, and compliance strategy. Workflow and exception processing capabilities ensure consistent and timely identification of exceptions. The automated, audited, review and approval process for account certification is based on industry-accepted compliance frameworks and addresses clients’ unique sign-off requirements. A real-time, enterprise view of transaction activity allows users to capture and monitor key performance, risk and control indicators, and other relevant metrics over time, thus allowing analysis against targets and strategic objectives. With Accurate Reconciliation, reconciliation can be centralised, no longer needing to be stuck in a business silo or constrained by technical limitations in deployment and volumes. Accurate Reconciliation is capable of handling all transaction and account types in support of cash, cheque, securities, FX or any other reconciliation process, all on a single platform; there is no need to create interfaces to separate systems.

**Technology**
Accurate Reconciliation is an enterprise-strength multi-tier solution using a Java J2EE application server and Web browser for Microsoft Windows client components.

**Industry Accolades**
Accurate Reconciliation has maintained SWIFT Reconciliation Certification for 15 years.

**Connect With Us**
For more information about Accurate Reconciliation, email getsolutions@fiserv.com or visit www.fiserv.com.
**Payment Fraud Manager**  
Reduce Electronic Payment Fraud With Real-time Detection Capabilities

Electronic payment fraud is a significant threat to both banks and banking systems around the globe. Accurate, real-time fraud detection capabilities can help financial institutions respond effectively to protect customers and minimise financial losses.

**Flexibility and Configurability**  
Payment Fraud Manager applies advanced analytics and risk scoring models that enable fraud investigators to prioritise the highest risk transactions for review. All of the data needed to process suspicious payments is provided at their fingertips. This allows organisations to rapidly adapt their strategies to deal with emerging fraud patterns.

Payment Fraud Manager allows fraud departments to:

- Instantly suspend suspicious payments before losses are incurred, using real-time detection and interdiction
- Achieve the most accurate detection possible through advanced inference techniques, including predictive individual or consortium models based on analysis of millions of historical risk patterns

**Key Benefits**

- Real-time solution identifies fraudulent payment transactions before losses are incurred
- Catches more fraud with pattern recognition models across any payment initiation channel including online and mobile
- Reduces false positives
- Controls flash fraud with user-defined scenarios and scorecards
- Simplifies workflow with comprehensive alert and case management system
- Easily integrates management and regulatory reporting
- Can incorporate customer-level profiling to further improve results

- Control every aspect of risk according to each organisation’s risk tolerance using supporting scenarios, scorecards and case management
- Respond at the speed of fraud with powerful, easy configuration

**Technology**

Microsoft.NET, Microsoft Windows, Microsoft SQL Server
Connect With Us
For more information about Payment Fraud Manager, email getsolutions@fiserv.com or visit www.fiserv.com.
Performance Acceleration Services
Draw on Extensive Best Practices and Industry Knowledge
to Achieve Sustainable Growth

Performance Acceleration Services from Fiserv helps you optimise customer value and increase profitability. The rigour of our analytics allows us to quickly identify, quantify and lead you to new revenue growth opportunities.

Value for Your Organisation
Fiserv consultants are financial services, customer value and profitability experts – with proven track records of delivering tactical ‘quick wins’ as well as long-term, sustainable growth opportunities that will ensure strong growth in annually recurring revenues. Our business delivery model is light on institution resources and quick on results. With minimal involvement from your staff, Fiserv conducts a six- to eight-week investigation resulting in the identification of numerous revenue enhancement and cost reduction opportunities available to your financial institution. We customise and align these opportunities with your business strategy and market environment, offering a comprehensive business case where required, designed to gain quick consensus and approval. Our understanding of customer behaviour and market shifts can help your institution accelerate the transition from a fee-based business model to a customer- and service-focused environment. We leverage our experience in heavily regulated markets to help our clients achieve compliance without sacrificing financial goals or compromising customer experience.

Core competency areas include:
- Credit card/store card (issuing and acquiring)
- Retail: current/transactional accounts
- Vehicle finance, personal lending and mortgages
- Business banking
- Wealth management

Connect With Us
For more information about Performance Acceleration Services, email getsolutions@fiserv.com or visit www.fiserv.com/international.
Network Fee Advisor
Increase Profitability Through Improved Management of Rising Card Scheme Fees and Expenses

Network Fee Advisor from Fiserv improves your ability to analyse, audit and manage card scheme invoices by helping you view the relationships between card fees and key performance indicators.

Value for Your Organisation
After a review of your current contracts and invoices, Fiserv creates data inputs and business rules that allow Network Fee Advisor to break out and compare your MasterCard® and Visa® costs by fee type, card type, transaction type and other variables. A dashboard displays all costs associated with card fees and their relationship to key performance indicators (KPIs) as defined by your institution. This enables an improved understanding of transactions or fees that are driving cost increases; cost by business line, card type or transaction type; costs in relationship to portfolio performance; and new fees and exception items.

Network Fee Advisor helps you reduce card programme fees and taxes by 5-20 percent, while improving your ability to manage operational costs going forward.

Key Benefits
- Improved auditing and control of card scheme invoices
- Reduced monthly payments through the identification of operational inefficiencies
- Ability to allocate fee and tax expenses to business and product lines
- More accurate product pricing through the identification of fees by product or transaction type
- Identification of costs that are outside of anticipated or approved ranges
- Geographic consistency through the ability to audit costs across different markets
- Improved efficiencies through the review and tracking of contracts to ensure all applicable discounts and rebates are obtained

Technology
Network Fee Advisor is developed in two methods:
- Windows desktop-based (standalone/Client Server Architecture)
- Web access-based
The desktop-based version is mostly recommended for intranet users and can further be categorised into three modes, based on deployment type choice:

- Single user standalone mode
- Single user client server mode
- Multiple user client server mode

The Web version is more suitable for users not on intranet domain and Internet access is the only choice. Though being users from same institution, they may be sub grouped for data isolation and security. The Web version can further be categorised into two modes, based on deployment type choice:

- Lesser usage mode
- High usage mode

### Deployment of Desktop Version

#### Single User Standalone Mode

1. Minimum Win 7 o/s, or Windows Server 2008/2008 R2/ 2012/ 2012 R2
2. Microsoft SQL Server 2008 R2
3. Net framework 4.5.1

#### Single User Client Server Mode

1. Minimum Win 7 o/s, or Windows Server 2008/2008 R2/ 2012/ 2012 R2 for Client Machine
3. Microsoft SQL Server 2008 R2 for Server Machine
4. Net framework 4.5.1 on both Client and Server Machine

#### Multiple User Client Server Mode

1. Minimum Win 7 o/s, or Windows Server 2008/2008 R2/ 2012/ 2012 R2 per Client Machine
3. Microsoft SQL Server 2008 R2 for Server Machine
4. Net framework 4.5.1 on all Client machine(s) and on Server Machine.

### Deployment on Web Version

#### Lesser user mode (Single machine being used as Web/ App/ Database Server):

2. Microsoft SQL Server 2008 R2 on Server Machine
3. IIS 8.5 on Server Machine
4. Net framework 4.5.1 on Server Machine
5. IE 9 on Client (end user) machines

#### High Usage Mode

2. Microsoft SQL Server 2008 R2 on Database Server Machine
3. IIS 8.5 on App Server Machine, Web Server Machine
4. Net framework 4.5.1 on App, Web Server Machine
5. IE 9 on Client (end user) machines

### Connect With Us

For more information about Network Fee Advisor, email getsolutions@fiserv.com or visit www.fiserv.com.
Performance Advisory Services
Draw on Technological Expertise and Deep Knowledge to Maximise Business Potential

Performance Advisory Services from Fiserv can help you with a wide range of business solutions tailored to your needs.

Value for Your Organisation
Fiserv is an international leader in the areas of core banking, payments, digital channels and cash management. Our internal consulting team provides specialist advisory services in each of these areas.

Whilst we draw upon Fiserv technological expertise and a deep knowledge base, our advisory services are technology-neutral and can benefit Fiserv clients and non-clients alike to tackle a wide range of business problems. Our consultants are drawn from, and have worked in multiple markets across the world. We combine a truly international perspective with deep local knowledge of each of the markets in which we operate.

Key Benefits
- Revenue and cost management recommendations
- Expert advice on solution implementation
- Insightful analysis of strategic and tactical pricing
- Insight into business case development and cost/benefit analysis
- Advanced analytical modeling guidance
- International benchmarking intelligence

Connect With Us
For more information about Performance Advisory Services, email getsolutions@fiserv.com or visit www.fiserv.com/international.
Advantage Fee™
Improve Cash Flow, Efficiency and Client Service With Comprehensive and Intuitive Technology

Advantage Fee from Fiserv is a comprehensive client billing and revenue management solution that helps financial services organisations worldwide support flexible, innovative and fast-changing fee structures with efficient and controlled invoicing. Advantage Fee streamlines billing processes, allowing you to manage the new generation of fee and account structures, and preventing revenue leakage.

Innovative and Efficient Management

Globalised fee management is enabled with the flexible calculation engine. Advantage Fee can handle innovative fee structures in any currency at any level. Parameters recognise multiple languages and translate according to region, product and business line. The following features further enhance your efficiency:

**Instinctual technology**—Changes in billing requirements or customer agreements are detected immediately and feed automatically.

**Revenue management**—Features that track revenue, monitor outstanding client balances and report to the general ledger. And there is support for accrual accounting methods for more effective invoicing.

**Reporting techniques**—Enable you to evaluate revenue performance and assess potential revenue risks with the reporting capabilities of Advantage Fee.

Automated, Accurate, Secure

Across the financial services industry, the growing complexity of investment solutions and client relationships has led to widespread change in billing requirements. Increased globalisation and a vast range of products and services place additional strain on organisations to achieve operational excellence. The need for automated, accurate and timely invoicing is stronger than ever.

Advantage Fee eliminates the need for manual processes that many businesses still rely upon. It enables the management of the new generation of fee and account structures with an accurate, timely invoicing system. And, you can consolidate your workflow by integrating onto a single platform that is guaranteed to improve billing services.

Key Benefits

- Prevents revenue leakage and common invoicing issues
- Improves customer service with branded invoices that add a personalised touch
- Improves revenue forecasting by leveling out the revenue stream with accurate accruals and improved decision making
- Delivers greater control by replacing manual processes
- Meets audit requirements and industry regulations, including Sarbanes Oxley, Basel III, the Markets in Financial Instruments Directive (MiFID) and Gramm-Leach-Bliley
- Built-in business intelligence and powerful analytical capabilities provide in depth views of any type of business
Connect With Us
For more information about Advantage Fee, email getsolutions@fiserv.com or visit www.fiserv.com.
Module

Messaging Services: Message Broker
Increase Efficiency and Scalability for Asset Managers, Investment Managers, Outsourcers and their Counterparties and Improve Client Service

Messaging Services: Message Broker from Fiserv is a powerful enterprise application integration (EAI) solution that provides messaging and integration to allow businesses to connect disparate systems efficiently. This provides organisations the ability to be agile, and keep pace with rapidly evolving business demands.

Flexible and Integrated
Message Broker uses software-components-based standards that ensure easy implementation and maintenance, which promotes overall low cost of ownership. Messages can be delivered to multiple recipients with defined business rules. It integrates the range of financial messaging protocols and the latest web technologies. Message Broker is strong enough to have been deployed at global asset servicers, large institutional asset managers, bulge bracket broker dealers, custodians and stock exchanges around the world. In addition, Message Broker is flexible as a point-to-point messaging solution that facilitates transaction processing and exceptions management.

Message Broker and Your Firm
Message Broker provides tremendous business capabilities to firms of all sizes, including: routing messages to multiple destinations, based on rules, with limitless complexity. This includes support for external libraries such as SWIFT, FIX, Omgeo, DTCC and comprehensive exception message handling.

Message Broker Efficiency
In addition to message orientated middleware (MOM) architecture, Message Broker also supports horizontal and vertical scaling, and synchronous and asynchronous message flows. Message Broker also handles errors with exception-based reporting, and enables a configurable numbers of processing units, which in turn, can preserve related message order. Due to its scalability, Message Broker can fully interface with Unified Wealth Platform from Fiserv, to facilitate consolidated reporting, easy monitoring of accounts, and their adherence to investment policy statement (IPS) compliance terms.

Message Broker technology, backed by the power of TradeFlow™ from Fiserv, features:

- MOM architecture: This architecture supports real-time messaging, tracking and error logging
- Multiple enterprise application integration options: Message Broker can integrate with various message queue solutions, Web Services, SSH File Transfer Protocol, File, Importer/Exporter Database, email, and has Batch Importer/Exporter
Message Broker can integrate with the following financial utilities:

- Oasys Domestic
- Omgeo Central Trade Manager
- SWIFT Alliance and SWIFT LITE2
- DTC (TradeSuite ID)
- Traiana
- MarkitServ
- Bloomberg

- Best of Breed order management, portfolio accounting, and back office systems
- Payment Messaging

**Key Benefits**

- Supports the concept of multi-tenant, multi-entity
- Supports advanced ISO standards in the post trade space -7775, 15022 and 20022.
- Message Broker support creates and manages all the leading industry formats like FIX, SWIFT, Omgeo – Oasys, CTM, FpML, MarkitSERV-FpML
- Rapid time of market compared to any external tool

**Technology**

Integration with a full J2EE complaint Web Workstation (thin client). Built in integrated development environment (IDE): An IDE, which supports, source control of all artifacts, packaging code as libraries, a debugger; and is suited for teams with many developers

**Connect With Us**

For more information about Messaging Services: Message Broker, email getsolutions@fiserv.com or visit www.fiserv.com.

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Product

TradeFlow™
Manage the Entire Post-Trade Processing Workflow From Trade Capture to Settlement Confirmation

TradeFlow from Fiserv is designed to enable back-office professionals from global financial organisations to efficiently manage their entire post-trade process from trade capture to settlement. The solution provides automated workflows, based on industry best-practice standards with regard to the confirmation and settlement of trades. It supports multiple asset classes and currencies.

An Efficient Single Platform

TradeFlow enables you to achieve efficiencies in post-trade processing by providing a single platform for multi-asset post-trade processing so that you can efficiently manage operations and benefit from reduced operating costs. TradeFlow provides organisations with the ability to scale with projected industry increases in transaction volumes while minimising operational overhead. It firms to rapidly take on new clients, create classes and support global expansion. It reduces losses and manages exceptions effectively by identifying them early in the process.

Technology:

Support for industry leading operating systems (Microsoft Windows, Red Hat Enterprise Linux or Solaris) and database technologies (Oracle or Microsoft SQL Server) allows clients to implement robust and scalable solutions to support their middle office operations.
TradeFlow Solution

Instruments
- Equity
- Fixed income
- Payments
- Exchange Traded Derivatives
- FX
- Money Markets
- Non-Deliverable Forwards
- Repos
- OTC Derivatives

Formats
- XML
- ISO 15022
- ISO 20022
- FpML
- FIX
- Omgeo – XML
- Markit – FpML
- BVI

Functions
- Confirmation
- Settlement
- Notification
- Netting
- Clearing

Utilities
- Omgeo – CTM
- Omgeo Oasys
- Direct
- DTCID System
- SWIFT GETC
- MarkitSERV
- FX – CLS

Key Benefits
- A single platform for exception handling and resolution
- Facilitates business monitoring and improves error capture
- Powerful enterprise application integration (EAI) tools for straight-through processing (STP) from order management to portfolio accounting
- Offers a wide range of interfaces to industry utilities, such as SWIFT, Omgeo and DTCC Provides links to investment managers, brokers, custodians and other market participants
- Delivers the entire catalog of SWIFT message types with support for ISO 15022 and ISO 20022 standards

Connect With Us
For more information about TradeFlow, email getsolutions@fiserv.com or visit http://www.fiserv.com/industries/institutional-management.htm.