Volanté
Business Information Agility

VolPay Foundation

Accelerated Payments Integration

The digital banking era has placed enormous pressure on the payment integration capabilities of both banks and corporates. Organizations must address the diverse challenges of customer payment channel proliferation; migrations to new XML based message standards, new real time clearing networks, and numerous, varied alternative payment services.

VolPay Foundation addresses these challenges by optimizing the payment integration capabilities of the organization.

The VolPay Foundation platform couples the automation of key activities within the design, build, deployment, and maintenance of payment interfaces with a large and ever expanding list of pre-built payment format plug-ins and payment format transformations, providing a consistent, agile, and functionally rich integration base for all payment systems interfacing.

No matter what payment integration challenge you face, be it implementing a range of new digital payment channels, or embarking on the rollout of an enterprise payments hub, or enabling an existing core system to support new payment streams, VolPay Foundation will reduce the time, cost, and risk of your payments project.

VolPay Foundation

VolPay Foundation is a software development platform that enables banks and corporates to rapidly deploy highly scalable and performant payment data transformations, validations, enrichments, orchestrations, and processes as callable services anywhere within their environment, thus insulating core systems from constant change and message complexity.

Systems requiring payments data integration

- Digital channels
- Payment hubs
- Treasury management
- Cash management
- Reconciliations
- Liquidity management
- Core banking payment modules
- Payment applications
- Card switches
- ATM networks
- Risk reporting engines
- ERP systems
- RTGS systems
- Clearing gateways
- ACH systems

The Digital Payments Market

For far too long, the world of payments remained relatively unchanged with a reliance on traditional bricks and mortar channels, an enduring base of legacy clearing services and standards, and a slow moving migration from traditional payment methods like checks and cash to electronic transactions.

The age of digital banking has, however, accelerated the pace of change, so much so, that it is now seen as a revolution in payments processing. This digital payments revolution is underpinned by a number of key drivers:

- **Customer channel proliferation** – expanded Host2Host services, new mobile devices, mobile wallets, e-commerce sites, card networks, etc.
- **New XML based clearing standards** – ISO 20022, global, regional, and local initiatives
- **Real time clearing** – faster, immediate payments, more transparency, better performance
- **Alternative payments** – constant appearance of new services and methods e.g. Bitcoin, Paypal, ApplePay, Ripple, etc.

At the same time volumes are doubling every 10 years in developed markets and every 5 years in emerging markets, and customers and regulators are demanding more transparency, less risk, quicker availability of services, and more diversity in engagement options.

The Challenge You Face Today – efficient payment service integration

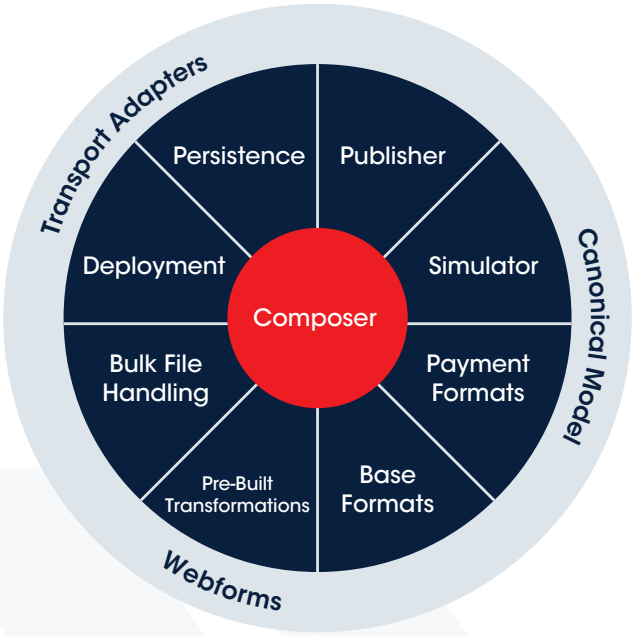
The current revolution in the payments market is generating a great deal of change within the processing environments of banks and corporates. New digital channel platforms are changing the way banks engage with their retail and corporate customers. Organizations are enabling their internal environments by either evolving the processing capabilities of their existing core banking or ERP systems in the short term, or by taking the more radical, long-term route of implementing new, dedicated payment service hubs to centralize, standardize, and modernize their payment processing capabilities.

Each of these initiatives face the same fundamental challenge of efficiently integrating and maintaining the flow of data to and from these systems in a world of constantly changing message formats, validations, and business requirements.

Organizations require integration tooling that will give them the agility they need to make changes quickly, the reliability required to ensure market compliance, and the efficiency required to reduce time to market, and thus time to revenue, for new payment services.

The Solution – VolPay Foundation

VolPay Foundation is a development platform consisting of a suite of modular tools designed for the expedient creation and deployment of payment data integrations.



Composer – At the heart of the VolPay Foundation suite is the time proven Volante Composer technology. This graphical development tool supports the definition of metadata models containing:

- Message definitions
- Message validations
- Message transformations
- Message enrichments
- Message orchestrations

Deployment - flexible code generation options to automate deployment to ESBs, OSGi systems, cloud, to application servers and API based calls from applications.

Persistence - define data stores for exception management, tracking, reporting, auditing, etc.

Publisher - automated generation of documentation detailing all aspects of the implementation including Message Implementation Guides.

Simulator - desktop testing functions, full test manager, test data generation.

Bulk File Handling - bulk, un-bulk, sort, filter, aggregate, join, normalize, de-duplicate, reformat.

Payment Formats

Pre-built and maintained libraries of payment message formats and validations including:

ISO 20022 - SWIFT MX, SEPA, SADC, CGI-MP, local variants,...
SWIFT MT - MT1XX, MT2XX, MT9XX, MT3XX, CHIPS, CHAPS, TARGET2, SRG2010-15,...
ISO 8583 – 1987, 1993, 2003, Amex, Mastercard, Visa, Faster Payments switches,...
Corporate – EDI (ANSI-X12 and EDIFACT), BAI2, SAP IDocs, PEXR,...
Domestic proprietary – US, UK, JP, AU, SG, IN, CA, BR, CO, MX, DE, NL, PL, ZA,...
Alternative – Ripple, Bitcoin, Paypal, ApplePay

Base Formats

Fixed width, XML, Excel, HTML, CSV, ASCII, Delimited, CobolCopyBook, Word/RTF, PDF, JAVA POJO, Universal

Pre-Built Transformations

85+ standards plugins and 250+ transformations to and from ISO 20022 including SWIFT MT, Fedwire, BACS, SAP, CGI-MP, CHIPS, BAI2, ICF, BECS, CA005,...

Transport Adapters – for connectivity including file, JDBC, FIX, FTP, SOAP, HTTP, JMS, MQ, SMTP, servlet, scheduler, & Adapter Developer Kit
Canonical Model – providing a template for enterprise standardization of payment formats based on ISO 20022
Webforms – automated generation of user screens for validated data input, dashboard tracking, repair, reporting,...

VolPay Foundation: agility through speed and flexibility

Speed because:

- Analysts and programmers can collaborate to design the requirements that generate the functioning code which reduces the development cycle
- Documentation is auto generated enabling analysts to get timely business signoff
- Pre-built and maintained formats, validations, transformations
- Built-in test facilities, desktop, batch, enabling early identification of exceptions
- Automation of compilation, deployment choices, and upgrades process
- Ability to invoke from within applications, eliminating latency and unnecessary transformation hops
- Comprehensive tools for the automation of the upgrading of integration logic as underlying standards and rules change

Flexibility because:

- Compile and deploy from the same model into multiple environments including proprietary software, open source software, and commodity hardware
- Extend and enhance messages and standards for local variants
- Configurable message definitions, validations, transformations, enrichments and process flows

Proven technology you can trust

VolPay Foundation core components are proven through their production use by more than 80 diverse financial institutions and corporates around the globe.

Optimizing the Development & Deployment lifecycle

VolPay Foundation accelerates each stage of the development lifecycle for payment data integration which includes the validation, transformation, enrichment, orchestration, and processing of payment specific data. This significantly reduces the time to market for developments and, ultimately, the earlier launching of new services and quicker time to revenue.

- **Design** – meta model based collaboration that captures the detailed specification of formats, validations, transformation rules, etc.
- **Compose** – build complex functions through configuration, graphically design message flows
- **Test** – run simulations from the desktop, on the fly testing, test data generation
- **Deploy** – automated compilation and deployment into multiple environments, reuse of standardized code across different platforms
- **Document** – automated generation of detailed documentation, ability to share with customers to align understanding
- **Run** – provision of standards updates and automated upgrades, ability to adjust on the fly and support multiple entities

Where & When to use VolPay Foundation?

Anywhere and anytime an organization has to link or integrate payment transaction streams or systems, then VolPay Foundation will deliver significant benefits to the organization.

Whether it is a one-off interface to a new clearing service, or linking the card switch to the core banking platform, or integrating a new digital channels platform, or implementing a new enterprise wide payments hub, the specialized tooling, message libraries, and pre-built transformations of VolPay Foundation will significantly reduce the time it takes to develop, deploy, and manage any payment related integration.

Contact us at **info@volantetech.com** to schedule an online demonstration of VolPay Foundation.

www.volantetech.com

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