

# Volante *Designer*

## Simplifying complexity in financial message and data integration

### Agile Financial Services data and API integration tools

Automation of the labor intensive aspects of development is one of the most important issues facing financial firms today. This pressure for faster development and deployment is going to become more intense in the future as financial firms to look to gain the increased business agility they need to remain competitive and grow.

Volante Designer is a suite of modular tools designed for the integration and processing of financial data whether expressed as traditional messages or as API content. Used today by global banks, buy and sell side firms, exchanges and industry utilities around the world, Volante Designer enables users to rapidly build data integration solutions that handle payment or trade data, financial messages or API requests, as well as internal data flow. Its ability to implement modern technology as part of the process such as RESTful APIs means that the integration solution can also be used as the basis for developing additional application functionality.



## Target solutions

### Payments

- » SWIFT, SEPA, Real Time Schemes, CHIPS, Fedwire, ACHs, BTRS, Ripple, Zelle, EDIFACT, X.12
- » Payment processing hubs
- » Client flow on-boarding
- » Corporate treasury

### Post Trade

- » SWIFT, ISO 15022 and 20022
- » T2S
- » Dodd-Frank, MiFID II, EMIR, SFTR and other regimes
- » CCPs
- » Corporate Actions

### OTC Derivatives

- » Comprehensive support for FpML, FIX, DTCC GTR and MarkitSERV
- » Clearing and affirmation services

### Market, Trade and Reference Data

- » FIX, FAST (OPRA, CME, etc.), Reuters, Bloomberg, etc.
- » ITCH/OUCH
- » SEFs & OTFs
- » SWIFTRef, Accuity

### Trade Services

- » Supply Chain Finance
- » Bank Payment Obligation (BPO)
- » SWIFT
- » ISO 20022

## How is Volante different?

Volante Designer offers total system flexibility. Data from any source can be transformed into any format at any destination. Volante supports proprietary, legacy or standards-based messages and also the exchange of data via API mechanisms. It also works with any platform, including enterprise services buses, application servers, message brokers, cloud deployments, micro-services architecture, home-grown middleware, applications and/or gateways.

It does not end there. Volante users can model their data driven processing to include transformation, validation, enrichment, routing and exception management. Messages and data can be persisted via the model to any relational, XML or NoSQL data store.

All without writing a single line of code. By eliminating hand coding, Volante cuts costs and time from data and process integrations by more than 50%. In addition, Volante transformations are fast enough for low-latency applications.

## Simplified integration design

Volante Composer is the central component of Volante Designer. With its spreadsheet-style or drag & drop interfaces, users can easily map message and data definitions from source to destination, with the freedom to customize standard and proprietary formats to real-world requirements. Rules can easily be defined based on a vast set of formulae available in the interface. When completed, these elements of message processing are represented as a model or cartridge, which is converted to code via Java code generation with the ability to easily choose the target technical infrastructure. If the infrastructure changes the user simply needs to redeploy the model. At the same time user and support documentation are also generated as HTML or PDF artifacts

## Built-in data domain awareness

Volante further simplifies the design process with Volante Format Plug-ins. Providing message libraries and related validation rules, Format Plug-ins deliver out-of-the-box support for 100+ standard formats including SWIFT, ISO 15022, ISO 20022, FIX, FpML, EDI, ACHs, etc. In addition, comprehensive support is also present for the generic formats such as XML, Fixed Width, CSV and Cobol Copybook that underpin many proprietary or domestic data interactions. Volante Designer has been built to adapt along with changing technical approaches. As the world is gradually moving to the delivery of connectivity via APIs and service based deployments in the Cloud, Microservices containers or across service buses then so has Volante Designer supported that change.

Volante constantly maintains and adds to this growing list of plug-ins and where appropriate also maintains mappings between them, to date more than 300 have been developed.

## Hand-coding eliminated

Volante Code Generators automatically convert cartridge models into runtime libraries in native code for virtually any infrastructure environment. The generated code can also be invoked from within applications, eliminating latency and unnecessary transformation hops. The model driven approach allows client development teams to benefit from using an acceleration tool whilst still being able to embed the generated artefacts within their overall projects either by integrating directly with Volante Designer's concrete java API or via RESTful APIs

## Integrated data management

Additional parts of Volante Designer include the following:

- **Volante Simulator** – for end-to-end testing of transformation logic
- **Volante Test Manager** – for full solution regression testing
- **Volante Persistence Designer** – for modeling database operations
- **Volante Cartridge Publisher** – for publishing documentation
- **Volante WebForms** – for publishing messages to HTML forms for monitoring and management (dashboard, entry, view, repair)

In summary, Volante provides a comprehensive set of integration tools, for any project that requires the manipulation, processing, validation of data either internally or as part of a process of communicating with customers, counterparties or the market utilities. Volante Designer delivers value – from rapid ROI on development projects to acceleration of industry initiatives, new commercial services that are increasingly blockchain or DLT based and regulatory imperatives.

## Target applications Continued

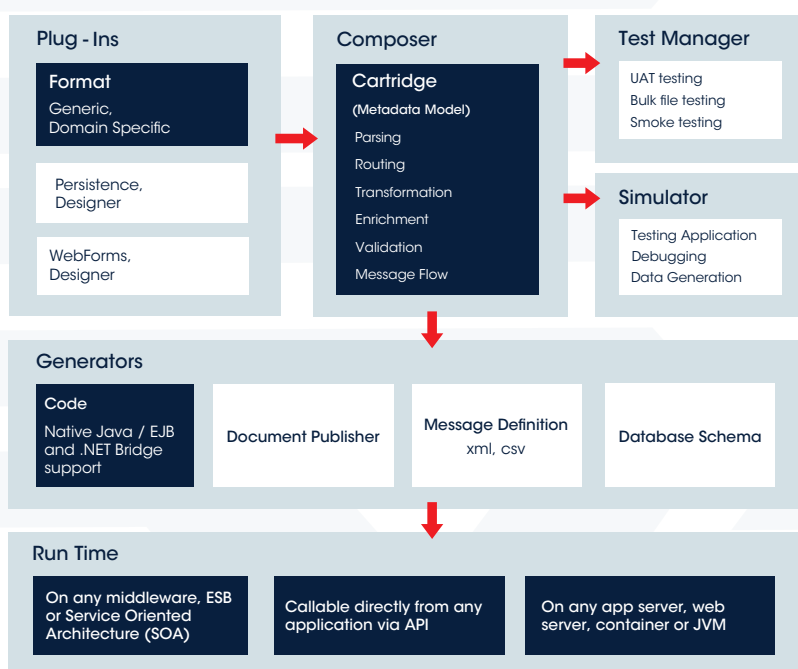
- » Technology renewal
- » Micro-services
- » API integration via RESTful services
- » NoSQL implementation
- » Adoption of JSON, RAML
- » SOA deployment
- » Legacy middleware replacement
- » Legacy systems enablement
- » Cloud deployments, AWS, Azure, Google, and more ...
- » Web Services deployments
- » Integration with DLT & Blockchain based services

### Dashboards

- » Monitoring message status, errors, transactions, balances
- » Message entry, view and repair
- » Exception handling

### Regulation

- » Transaction Reporting
- » Industry standard canonical models
- » Single approach for all regimes



**Volante Designer:**  
Message integration plus data management

## Unique Features

- » Model-driven approach enables rapid development
- » Model-driven approach is identical regardless of traditional messaging or API approach
- » Format Plug-ins for domain awareness of financial messaging formats
- » Code generation in line with documentation
- » Employing the same approach to integration projects regardless of deployment architecture
- » Visually defines message flows and exception processing

## Business Benefits

- » Faster time to market in development projects
- » Faster time to regulatory reporting compliance
- » Agile adoption of new technology based FinTech solutions
- » The business can define processing rules without understanding code
- » Simple integration design, enabling user to focus on business content rather than format technicalities
- » Streamlined architecture with increased runtime speed
- » Reduces the time and cost to onboard customer flow
- » Enables legacy systems to participate in the Real-Time and API ecosystems

## Our area of expertise

We start every client engagement by understanding the technical and business challenge the firm is seeking to address. This may be to strengthen a client relationship by building in automation, to reduce cost or minimize risk by eliminating manual processes or reconciliation activities, meet a regulatory requirement or, all of the above.

Volante can then work with the client and/or their chosen systems integrator partners to design the best practice approach.

We follow a rigorous and comprehensive approach when helping to design the right solution for clients but firmly believe that agility is best served when the client has the ability to configure the solution on an ongoing basis after development:



Volante's approach offers a compelling combination of industry experience and off-the-shelf toolsets designed to find the most effective solution to deliver not only a return on investment as quickly as possible, but also to lower maintenance burden, an overall lower total cost of ownership.

For a demonstration of Volante Designer, please contact us at [info@volantetech.com](mailto:info@volantetech.com) or contact one of our regional offices below.

## What users of Volante Designer say

“ We reduced our time to comply with regulatory changes from **8 to 3 months** – this gave us more time to **focus on our core business**. ”

“ Automation with Volante **compressed the project into 8 weeks** – we expected it to take **6 months**. ”

“ By delivering incremental improvement – **we managed the operational risk and kept the business department excited about the future we would deliver**. ”

“ **With Volante we are win win** – reduce operational risk, improve service levels, respond to customers quicker, **and build our reputational profile**. ”