Introduction

Reducing the complexity of integration in the global financial services industry

About Volante

- *Founded in 2001, privately owned*
- *Global Offices: New York (HQ), London, Mexico City, Dubai, Chennai*
- *Global Customers: Banks, Corporates, Investment Managers, Broker Dealers, Exchanges, Service Providers*

Highlights

- *Integrates heterogeneous data sources and standards*
  - ✓ 70+ Financial formats (SWIFT, ISO 20022, CGI-MP, SEPA, FIX, FpML, SAP IDOC, ACHs, EDI, etc.)
  - ✓ Proprietary formats (CSV, Fixed Width, XML, Cobol Copybook, Excel, PDF, Word, etc.)
- *Faster time to market; lower TCO*
  - ✓ Modeling environment with code generation
  - ✓ Automation (documentation, maintenance) and Reusability
- *Platform agnostic*
  - ✓ Middleware: Application Servers, Service Buses, Cloud, Standalone
  - ✓ Database, Network
- *Exceptional performance with low latency*

Product Overview

Volanté

Data Formats

SWIFT
- ISO 7775
- ISO 15022
- ISO 20022
- MT-MX translations

Payments
- SEPA, ACHs, EDIFACT, X.12,
- BAI2, ISO 8583

Market Data
- Bloomberg
- Reuters
- CurreneX
- FAST(OPRA,CME, FIX)

Trade Processing
- FIX, CMS, Omgeo OG & CTM
- CREST

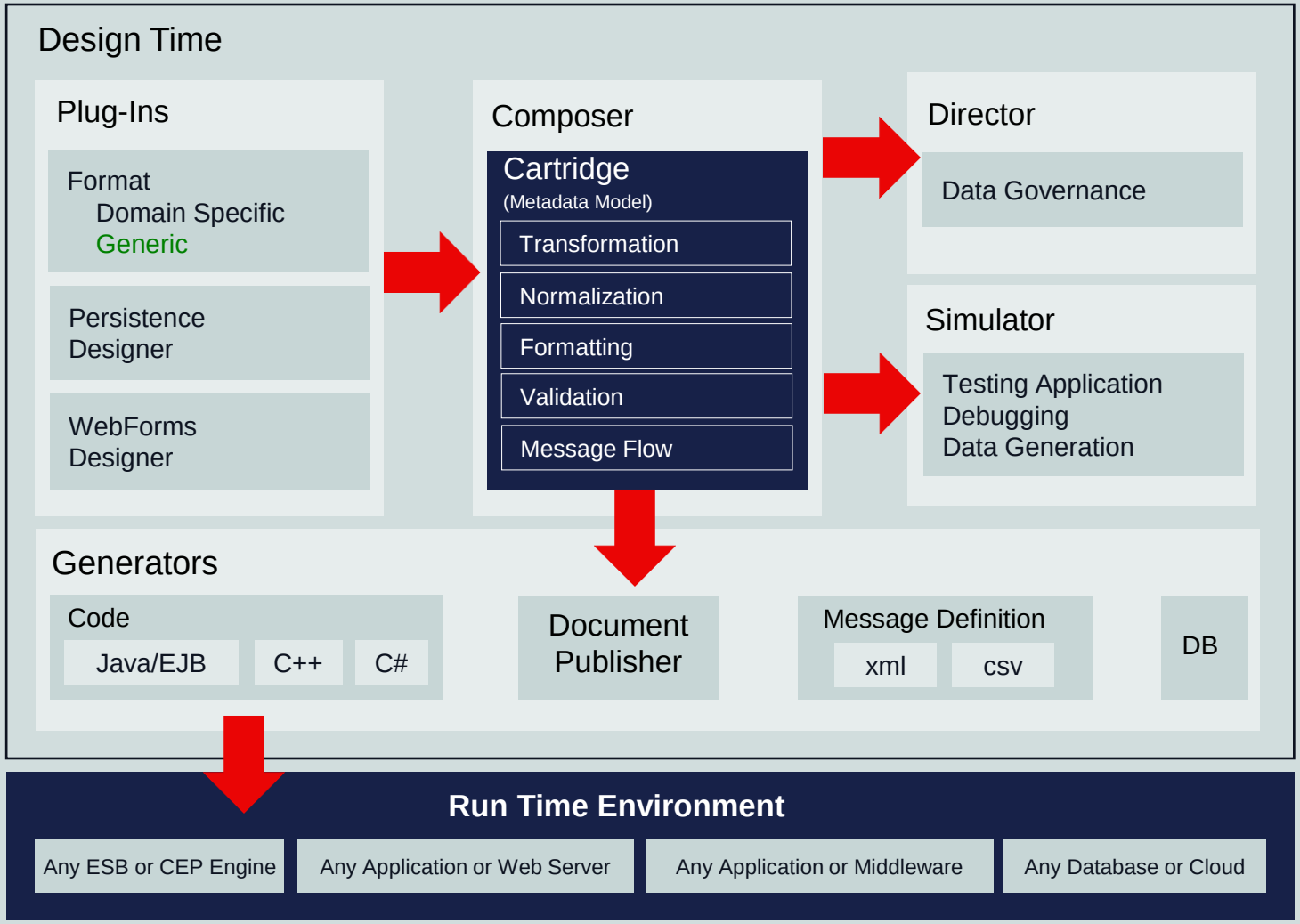
Reference Data
- Bloomberg backoffice
- Reuters DataScope
- S&P, Avox

Derivatives
- FpML (supports ISDA, SWIFT-CUG, DTCC, Markit)

Generic
- Proprietary Data
- Fixed-Width
- ASCII Delimited
- XML, XSD, PDF, DOC, RTF, XLS

Batch Processing
- CCB, XML
- Large file support

Volante Designer



Message Libraries – Payments Formats

SWIFT – SR 2014 and earlier

ISO 20022 (Swift MX)

- Cash Management – “camt” category
- Payments Initiation – “pain” category
- Payments Clearing & Settlement – “pacs” category
- SWIFTNet Corporate Service - SCORE
- SWIFTNet – Bulk Payments
- SWIFTNet – Workers Remittances
- Supply chain – E-invoicing
- Supply chain – TWIST
- Electronic account opening – EBAM
- MT1xx, 2xx, 9xx including “Y copy” “T Copy”
- MT-MX Translations

CGI-MP

EDI (EDIFACT and X12)

ERP

SAP IDOC

Oracle

Microsoft

SWIFT FIN ISO 15022

ISO 8583

- Card Payments – Mastercard, Visa, Amex
- Faster Payments in UK
- Domestic ACH formats

ACHs and RTGS Support

- CH – SIC
  - EURO SIC
  - DTA
- CO – ACH
- CZ – Certis
- DE – Deutsche Bundesbank
  - DTA
  - CAM
  - RPS
- EU – ACH – STEP2
- EU – SEPA
- FR – CFONB
- FR – Minos
- GB – BACS
- HU – ICS
- IN
  - NEFT
  - RTGS
- IT – CBI
- JP – BOJNET
- LV – EKS
- NL – CLIEop (Equens)
- PL – ELIXIR
- UK – BACS
- UK – CHAPS
- UK – Faster Payments
- US – FedWire
- US – NACHA
- US – CHIPS
- US – BAI2, BTRS

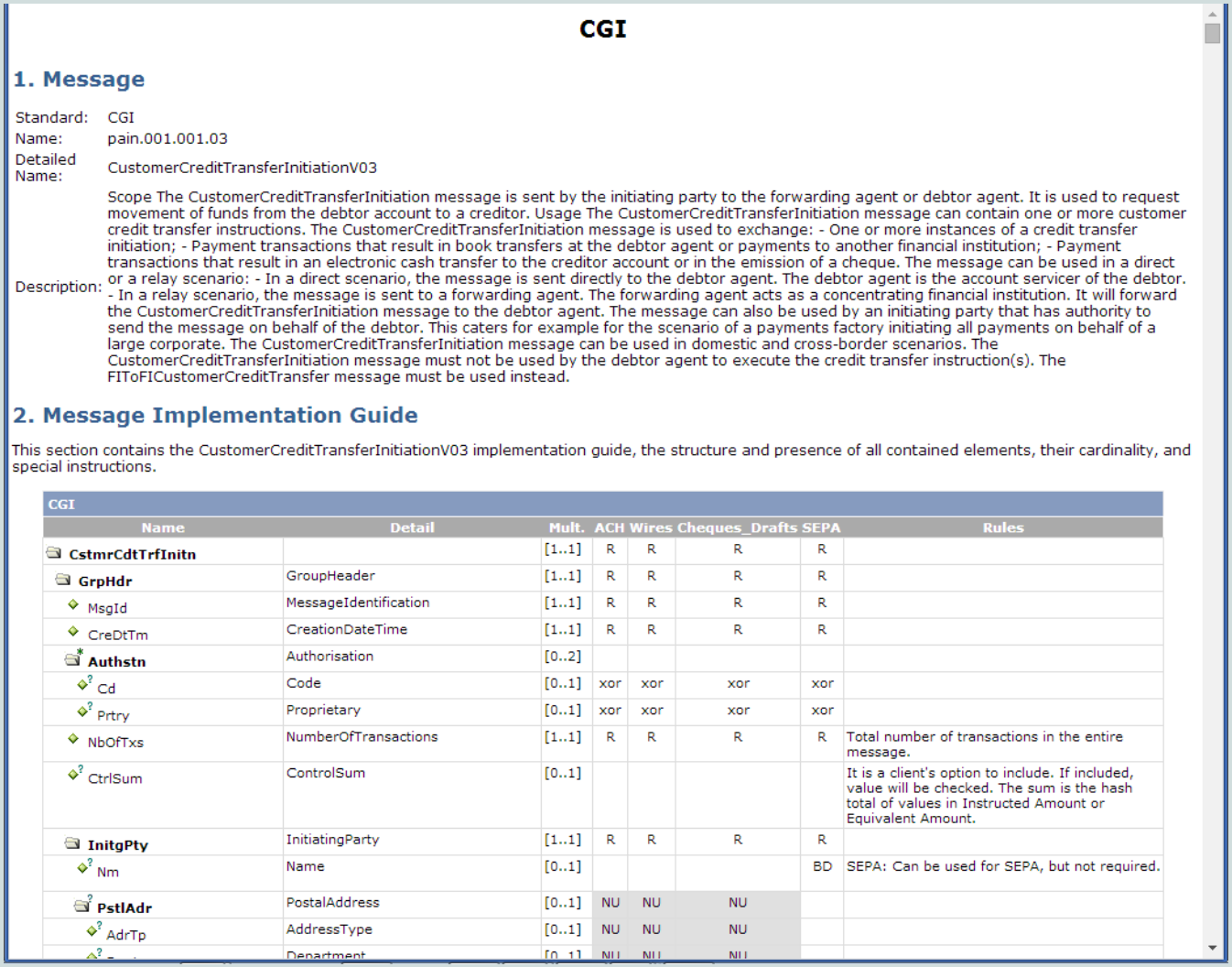
The message libraries are under constant development

Volante CGI-MP Plug-in

Volante CGI-MP Plugin

- Message Library of published CGI messages
- Built in validation rules for all payment types
- Automatic generation of Message Implementation Guide (MIG)
- Standards Updates available
- One-click upgrades using Volante Designer
- Mapped to various other Payment standards (SWIFT, Domestic ACH and Wire formats)
- Integrate into various ERP and payment applications

Message Implementation Guide generated using Volante Designer



CGI

1. Message

Standard: CGI
Name: pain.001.001.03
Detailed Name: CustomerCreditTransferInitiationV03
Description: Scope The CustomerCreditTransferInitiation message is sent by the initiating party to the forwarding agent or debtor agent. It is used to request movement of funds from the debtor account to a creditor. Usage The CustomerCreditTransferInitiation message can contain one or more customer credit transfer instructions. The CustomerCreditTransferInitiation message is used to exchange: - One or more instances of a credit transfer initiation; - Payment transactions that result in book transfers at the debtor agent or payments to another financial institution; - Payment transactions that result in an electronic cash transfer to the creditor account or in the emission of a cheque. The message can be used in a direct or a relay scenario: - In a direct scenario, the message is sent directly to the debtor agent. The debtor agent is the account servicer of the debtor. - In a relay scenario, the message is sent to a forwarding agent. The forwarding agent acts as a concentrating financial institution. It will forward the CustomerCreditTransferInitiation message to the debtor agent. The message can also be used by an initiating party that has authority to send the message on behalf of the debtor. This caters for example for the scenario of a payments factory initiating all payments on behalf of a large corporate. The CustomerCreditTransferInitiation message can be used in domestic and cross-border scenarios. The CustomerCreditTransferInitiation message must not be used by the debtor agent to execute the credit transfer instruction(s). The FIToFICustomerCreditTransfer message must be used instead.

2. Message Implementation Guide

This section contains the CustomerCreditTransferInitiationV03 implementation guide, the structure and presence of all contained elements, their cardinality, and special instructions.

CGI

Name	Detail	Mult.	ACH	Wires	Cheques_Drafts	SEPA	Rules
CstmrCdtTrfInitn		[1..1]	R	R	R	R	
GrpHdr	GroupHeader	[1..1]	R	R	R	R	
MsgId	MessageIdentification	[1..1]	R	R	R	R	
CreDtTm	CreationDateTime	[1..1]	R	R	R	R	
Authstn	Authorisation	[0..2]					
Cd	Code	[0..1]	xor	xor	xor	xor	
Prtry	Proprietary	[0..1]	xor	xor	xor	xor	
NbOfTxs	NumberOfTransactions	[1..1]	R	R	R	R	Total number of transactions in the entire message.
CtrlSum	ControlSum	[0..1]					It is a client's option to include. If included, value will be checked. The sum is the hash total of values in Instructed Amount or Equivalent Amount.
InitgPty	InitiatingParty	[1..1]	R	R	R	R	
Nm	Name	[0..1]				BD	SEPA: Can be used for SEPA, but not required.
PstlAdr	PostalAddress	[0..1]	NU	NU	NU		
AdrTp	AddressType	[0..1]	NU	NU	NU		
	Department	[0..1]	NU	NU	NU		

Customer to Bank communication using CGI-MP

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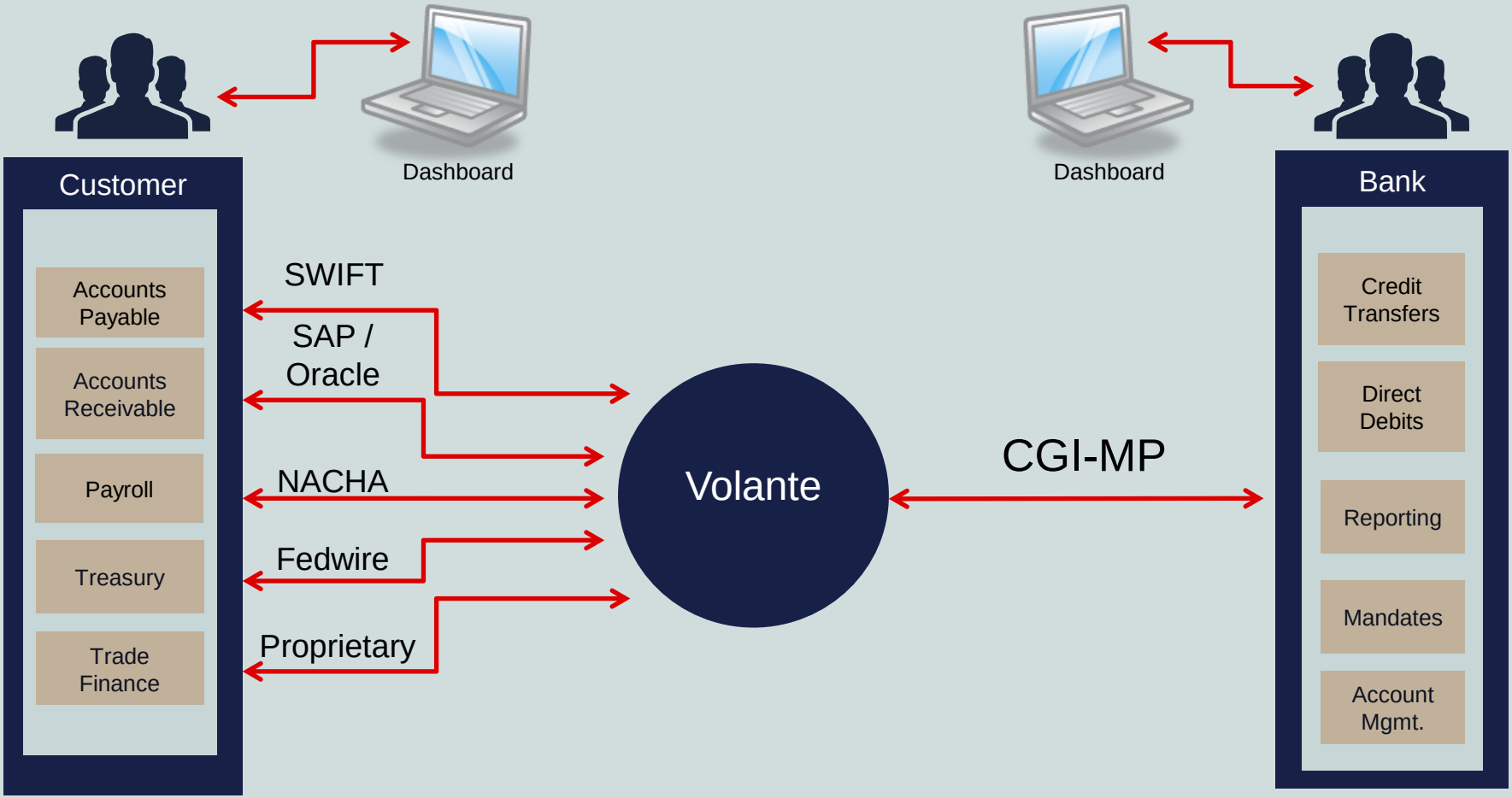

Translations between Message Formats

Between CGI-MP and other Standards

- SWIFT MT ↔ CGI-MP
- SAP CDM ↔ CGI-MP
- Other published standard formats ↔ CGI-MP

Between CGI-MP and Client Formats

- IDOC ↔ CGI-MP
- Oracle ERP ↔ CGI-MP
- Wall Street Systems ↔ CGI-MP
- GTreasury ↔ CGI-MP
- Other back office system ↔ CGI-MP