



STP

pro-active risk management

integration

modular

intelligent

scalable

flexible

real time

global leader

SmartStream Technologies Mission To eliminate the barriers to STP through the delivery of integrated, enterprise wide, real time transaction management solutions.

SmartStream Technologies is the undisputed market leader in the provision of STP solutions for transaction management. Over 1,100 financial institutions worldwide - including 75 of the top 100 banks - use its reconciliation and exception management solutions. By delivering state of the art software and implementation, and global 24x7 support services, SmartStream Technologies is uniquely positioned to provide institutions with increased efficiencies and reduced operational risk.

SmartStream Technologies

- The undisputed leader in reconciliations and exception management solutions, with a market share well over twice the size of any rival.
- One of the top ten largest, private software companies in Europe.
- Investing more in product development than the competition combined.
- The fastest growing STP solutions provider.
- Backed by a 24x7 global infrastructure for service and support with offices in all of the major financial centres including London, New York, Singapore and Australia.

"Corona forms a fundamental component of our STP strategy ...we chose to partner with SmartStream Technologies due to its proven Best of Breed technology."

Jean Claude Schneider, CIO Directeur Adjoint Mirabaud Privat Bank

For further information, please visit:

www.smartstream-stp.com

Corona from SmartStream Technologies

The most widely installed solution for multi-product reconciliations and exception management in the world.

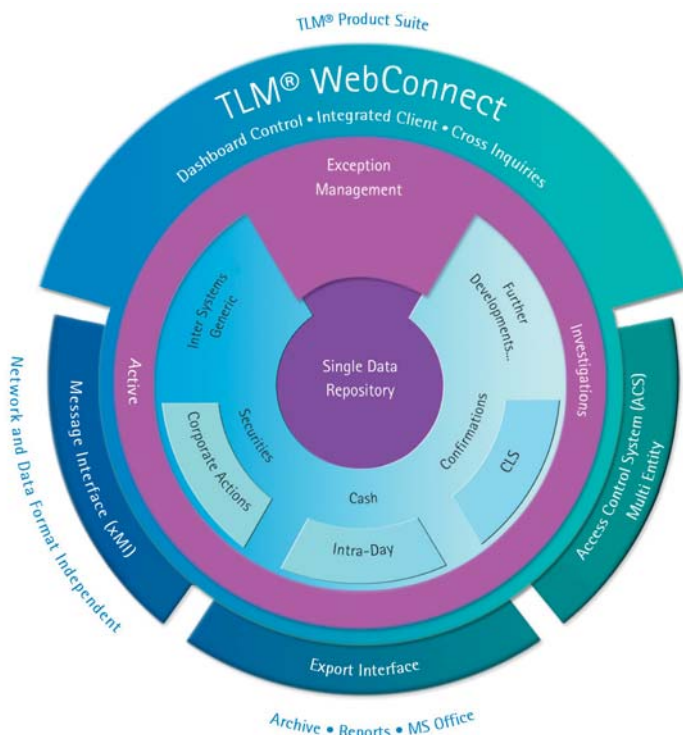
SmartStream's Corona solution has been at the forefront of transaction management throughout the past 30 years and SmartStream continues to utilise its expertise and the latest technology to develop new modules to the Corona range that meet the changing market demands.

Corona is a comprehensive, modular solution for institutions wishing to improve their operational efficiency through enhanced transaction and exception management.

The Corona modules are SWIFTReady Gold accredited and have been architected to increase Straight Through Processing. Corona can handle all financial instruments, facilitating the management of risk and liquidity on an enterprise wide basis.

Corona is available on multi-platforms, allowing it to meet all transaction processing requirements, irrespective of the size of the financial institution and transaction volumes.

Corona Functionality



Corona's strength lies in the integration of its individual modules. This enables firms to maintain complete operational control of a trade throughout its various transactional stages (i.e. cash, securities, FX), all from a single desktop.

modular pro-active risk management

Drivers for Improved Transaction Management

A combination of factors are forcing financial institutions to place improved transaction management at the top of the agenda. There is the ever present pressure to realise the cost and efficiency gains inherent in improving Straight Through Processing and eradicating manual intervention. New legislation including Basel II is concurrently placing an increased emphasis on effective risk management.

More than 800 financial institutions in over 90 countries worldwide currently rely on SmartStream's Corona solution to assist them in meeting these challenges.

- Corona has comprehensive functionality for the reconciliation and exception management of all financial transactions, delivering complete transaction management control and optimised risk management.
- Corona can reconcile transaction data in any format from any source, integrating silo based structures to deliver complete transaction visibility and control.
- Corona enables exceptions to be resolved pre- as opposed to post-settlement, delivering pro-active risk management to drive down an organisation's risk exposure.
- Corona is modular, fully flexible and highly scalable. It can handle both small and large volumes of data (up to 60,000 transactions per minute).
- Corona's unbeatable matching functionality delivers match rates in excess of 90%, helping achieve optimum STP rates.
- All Corona modules work with a single integrated database, delivering a single point of access for transaction information and complete audit trails for all transactions.
- Corona is reliable and proven over a sustained period.
- Corona is SWIFTReady Gold accredited.

Corona – The Ultimate Match Engine

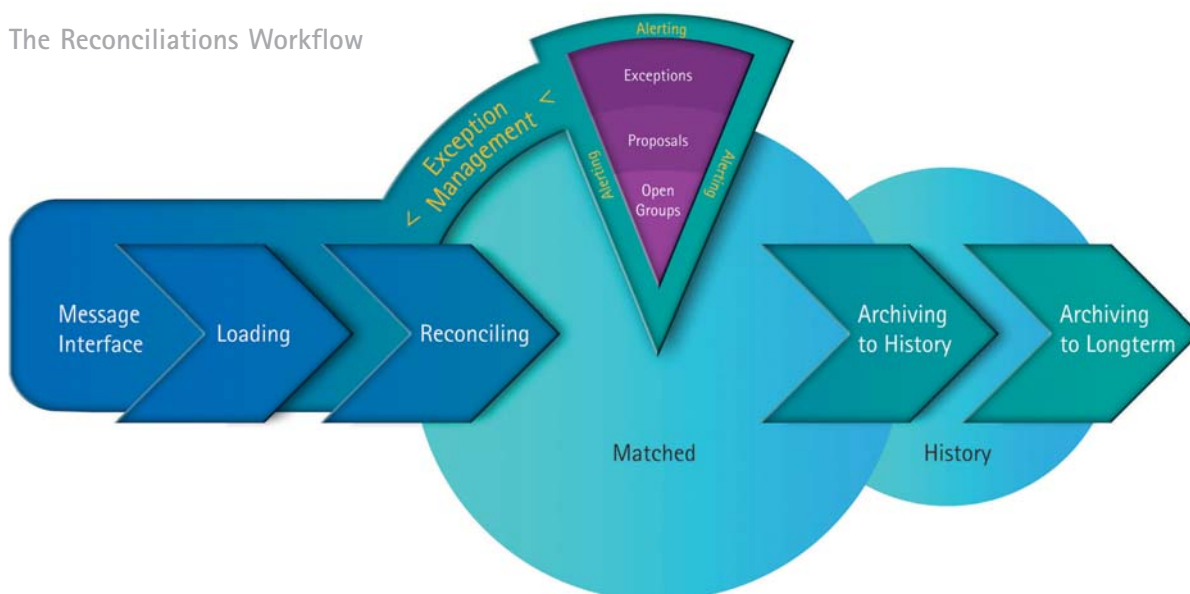
Corona's operational infrastructure has been architected as a comprehensive end-to-end processing package that provides companies with the ability to manage and monitor all financial transactions.

However unique the transaction processing requirements, Corona can deliver a solution to help achieve the desired operational efficiency and risk management objectives.

Corona operates in a simple and effective way:

- It gathers the information in real time.
- Transactions are then processed through the individual modules automatically.
- Exceptions are identified as they occur. Pro-active alerting allows exceptions to be managed and resolved as early in the process as possible.
- Users can specify how long matched data should remain in the active database and when it should be archived for long term storage.

The Reconciliations Workflow





efficiency
real time
reliable investment

Best of Breed Functionality

Automated Matching

Corona's sophisticated matching functionality enables financial institutions to achieve the highest possible STP rates. Users can define their own matching sets and tolerances. The system can be configured to match on an unlimited number of fields and can perform multiple matching cycles, each using different fields and / or tolerances. This ensures that the number of transactions requiring manual intervention is kept to an absolute minimum, and so increases STP.

The matching process is triggered as soon as new data is loaded into the system, and typical automatic matching rates in excess of 90% are achieved on all messages.

One-to-one, one-to-many and many-to-many matching are standard features of Corona.

Pseudo References

Financial institutions are only as good as the data they receive and misquoted information often makes automatic matching impossible, increasing the need for manual intervention.

To help overcome some of the operational issues associated with poor data, Corona deploys pseudo references that can translate misquoted information into comparable data and deliver a considerable increase in STP rates.

Inter-System Reconciliation

Generic functionality enables the Corona solution to perform inter-system reconciliations, which is imperative for firms wishing to exercise meaningful operational control. Inter-system matching allows organisations to ensure data integrity and also combine previously disparate transactional data, providing complete transaction visibility.

Intra-Day Reconciliation

Corona incorporates a powerful reporting functionality across the reconciliation and investigation modules, providing accurate, real time cash positions that reduce exposure to interest penalties. Intra-day reconciliation allows banks to identify potential problems as early as possible, reducing the risk involved.

Automated, Intelligent Exception Handling

Exceptions can account for around 80% of all back office costs. By delivering a fully integrated, cross-product exception management functionality, including pro-active alerting, Corona enables this figure to be vastly reduced, realising increased capacity, improved operational control and reduced risk.

Pre-Settlement Exception Resolution

Corona's ability to reconcile data in real time across financial instruments, means that any discrepancies in the matching and reconciliation process are identified pre- as opposed to post-settlement. Exception details are automatically forwarded to Corona's exception processing module for quick and efficient escalation and resolution.

By automating the exception process investigations teams are freed up to focus attention on the exceptions that pose the most risk. Investigations can be generated automatically, in batch or manually.

control integrated

The Business Benefits

An Accurate View of the Business

Identifying and resolving exceptions pre-settlement enables financial institutions to save significant amounts of money. By delivering an accurate view of the business at any one time, Corona allows financial organisations to effectively cover short positions, avoid failed settlements and reduce interest payments.

Audit and Control Compliance

Corona's single database enables incoming messages to be attached to the respective case delivering a complete audit trail for all transactions. A single point of access for all transaction data speeds up the investigations process, whilst delivering audit and control compliance.

Faster, More Accurate Processing

By automating the investigations process and resolving exceptions as they occur, capacity is opened up to enable large volumes of data to be processed faster and more accurately.

Continual Improvement of Operational Efficiency

The delivery of in-depth statistical data, for instance matching statistics that measure the speed, frequency and quality of data being received from third parties, provides for the continued enhancement of operational procedures, improved match rates and the Straight Through Processes.

Pro-Active Risk Management

Driving down operational risk through pro-active risk management is a key benefit that Corona delivers to financial institutions.

Tolerance levels can be set so that users can increase STP rates whilst maintaining control over their risk exposure.

Limit controls can further tighten an organisation's risk management, by ensuring that only designated individuals can manually match off items.

Quick ROI

Corona's modular nature enables financial institutions to realise a quick return on their investment, as modules can be implemented at a phased rate to address specific pain points.

Reduced Support Costs

With Corona's ability to handle all financial transactions, there is no need for financial institutions to deploy disparate systems and multiple packages to manage the reconciliation and investigation process. A single solution removes the operational inefficiencies associated with fragmented processes and significantly reduces support costs.

scalable

web enabled

multi product

Flexible Technology

Corona delivers the following:

- Easy integration into existing hardware and software environments.
- Ability to run on a variety of platforms: PCs, AS 400, IBM Mainframes, RS-6000, HP-9000 and SUN.
- Relational database support (MS SQL-Server, DB2 and ORACLE) which allows physical data to be optimised separately from live applications, giving optimum database efficiency and enabling the system to be used concurrently by a large number of users without compromising system performance.
- A single integrated data repository for all transactional information.

Multi-Bank Access Control

Corona's flexibility enables it to be configured to suit any size or type of organisation. Whether implemented in a department, a branch or multi-bank environment, all working methods are supported. Access to data is controlled via access rights that are assigned to users, thus ensuring data protection and integrity.

MIS Reporting

Corona delivers user-definable MIS reports. These can be produced via the integrated enquiry function or by third party report writers.

Web Accessibility



TLM® Corona Dashboard

The thin client version of Corona called 'TLM® Corona' provides ultimate flexibility in application presentation and pre-packaged integration to the TLM® suite of applications.

The powerful combination of a customisable, intuitive browser based interface with all the comprehensive and proven functionality of Corona offers a compelling, low cost approach to deploying Reconciliations and Exception Management across the extended enterprise.

Using the thin client version allows for the deployment of the Corona Client via the Internet or Intranet, removing the need for costly infrastructures and enabling zero rollout time with no delays. Using proven technology, built on open standards, users can be confident that the application has the scalability and security demanded by the world's leading financial institutions.

Operational changes to the system are applied at the server level enabling enhancements to be made just as easily and cost effectively as the initial roll out. The ability to deploy applications as a centralized service, connecting remote offices, enables productivity gains as workloads can be shared across distributed staff.

1,100 customers
globally

pioneering

Support and Professional Services

With over 1,100 customers worldwide, SmartStream's professional services personnel have all the experience required to ensure the seamless integration of the Corona modules within existing IT infrastructures.

With Corona, users benefit from:

- Solution implementation
- 24x7 global support
- Multi-lingual software, documentation and support (English, German, French and Spanish)
- Training
- Report writing consultancy
- Business workflow optimisation

Conferences and Seminars

Regular conferences and seminars around the world allow users to exchange views and discuss future product developments and enhancements, helping the Corona team to anticipate market needs and developments.

"The deployment of SmartStream's Corona solution will enable us not only to streamline our workflows, but also to reduce our operational risk, allowing us to concentrate on growing our business with confidence."
Mr. He Shou Chuan, Chairman International Bank of Tapei

global leader

Corona is the solution for...

- End-of-Day Cash Reconciliations
- Intra-Day Cash Reconciliations
- Security Messages Reconciliations
- Confirmation Reconciliations
- Generic Reconciliations
- Corporate Actions Reconciliations
- Proactive alerting to Exceptions
- Exception Management

The world's No.1 modular Reconciliation and Exception Management solution

"By implementing Corona we can reallocate staff to different tasks and focus attention on the investigation of transaction breaks."

Mr Roopnarine Oumade Singh, General Manager Republic Bank

"We are constantly striving to improve operational efficiency and respond to the increasing demands of a 24 hour global economy. By using Corona we are able to receive and process payments around the clock, allowing us to monitor our real time cash position and limit risk exposure. In order to excel in the future the bank must be focused on minimising risks and reducing costs. The implementation of Corona is paramount in helping us achieve this."

Henk Hutnik, Project Manager Rabobank Nederland

"The selection of Corona formed part of a strategic decision by the bank to centralise our reconciliations processing and significantly reduce operational cost and risk exposure. We were looking for an off-the-shelf, functionally-rich solution that could be extended to encompass all of the banks' reconciliation requirements in the future, and found Corona to be the best solution to meet those criteria."

Gilbert Jungen, Senior Vice President Dexia BIL

SmartStream Technologies' Global Locations

UK – Head office
3 St. Helen's Place
London
EC3A 6AB
Tel +44 (0)20 7847 8000

UK – Product Centre
1690 Park Avenue
Aztec West
Almondsbury
Bristol
BS32 4RA
Tel +44 (0)1454 617020

Australia
3 Spring Street
Level 8
Suite 1
Sydney NSW 2000
Tel +61 (0)2 8249 4359

Austria – Corona Product Centre
Vienna Twin Tower
Wienerbergstrasse 11
A-1100 Vienna
Tel +43 (0)1 313 540

Belgium
Industrieterrein Zuid II
De Regenboog 1
B-2800 Mechelen
Tel +32 (0)15 43 38 78

China
Rm 202, Unit 1 Bldg 7
Huaqiao Apartment
Anhui Lane
Chaoyang Dist.
Beijing 100101 PRC
Tel +86 13 90 102 3388

France
33 rue Galilee
75116 Paris
France
Tel +33 (0)1 44 43 55 54

Germany
An der Welle 4
60422 Frankfurt am Main
Tel +49 (0)69 75 93 81 03

India
C - 7 Plot 15
WICEL
Andheri (East)
Mumbai
Tel +91 222 83 792 90

Italy
Via Annibale Caretta, 1
20131 Milano
Tel +39 02 7420941

Singapore
70 Anson Road
#26-01 Apex Tower
Singapore 079905
Tel +65 6224 7689

Spain
C/Alfonso XII no. 26 51; 1a Plta
28014 Madrid
Tel +34 (0)91 598 49 30

Switzerland
P.O.Box 2214
CH-8026 Zurich
Tel +41 (0)1 226 80 80

USA – New York
61 Broadway
Suite 2824
New York
NY 10006
Tel +1 212 763 6500

USA – Phoenix
4835 East Cactus Road
Suite 325
Scottsdale
Phoenix
Arizona 85254
Tel +1 602 996 0450