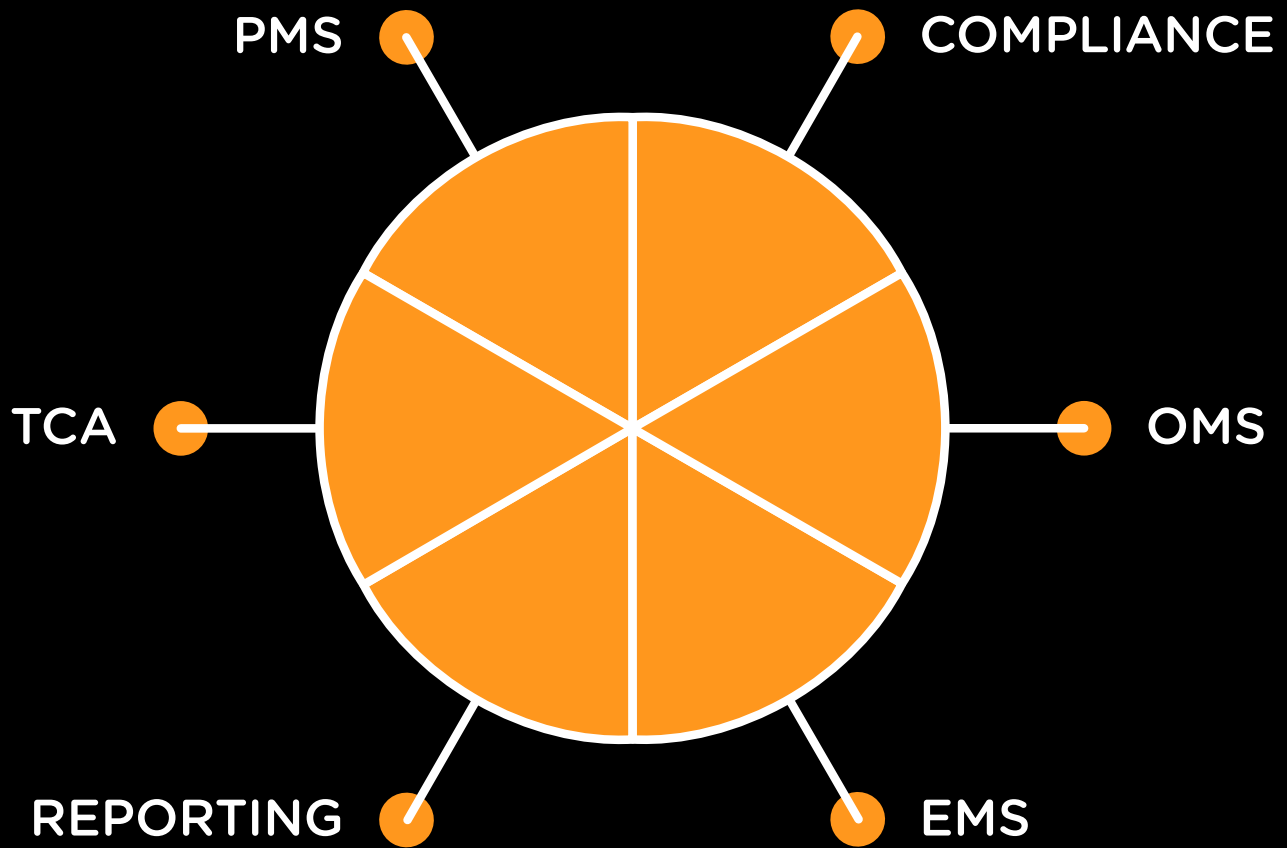




# ADVANCED MULTI-ASSET TRADING TECHNOLOGY FOR THE BUY AND SELL-SIDE



**2004**

Founded

**2007**

Launched  
OEMS

**180+**

Connected  
Exchanges

**250+**

Staff

**8**

Offices

**4**

Continents

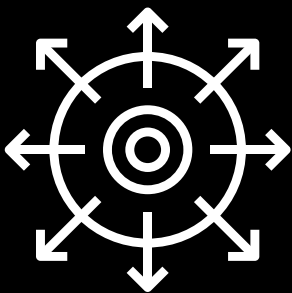
# ABOUT TORA

TORA is the leading provider of advanced investment management technologies for asset managers, hedge funds, proprietary trading firms and sell-side trading desks globally. We are a cloud-based front-to-back office technology provider delivering everything you need to run a trading and portfolio management desk.

TORA's award-winning suite of products offers the industry's most comprehensive institutional trading software including execution management, order management, risk control tools, algos, pre-trade and post-trade TCA and portfolio management solutions.

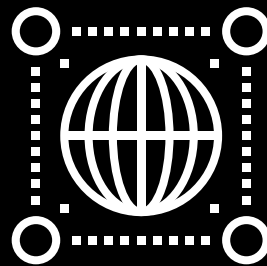
Our team builds innovative technology that seamlessly fits our client's workflow requirements through a feature-rich, intuitive user interface. The TORA API assures a truly straight-through processing (STP) experience and the TORA FIXNet enables our clients to access multi-asset liquidity from across the globe.

We pride ourselves on having a strong focus on unrivaled client support, rapid implementations and industry-leading innovation.



## A FULLY INTEROPERABLE PLATFORM, TORA WORKS WITH WHAT YOU'VE GOT

TORA's software is an open system. So whether you choose our entire cloud-based platform, or the individual components, TORA integrates with what you've got.



## INDUSTRY-LEADING ON-THE-GROUND SUPPORT AND PROFESSIONAL SERVICES

Some software implementations can be clunky and cumbersome. At TORA, we pride ourselves on offering the fastest and easiest implementation process in the industry. Our customers get the very best service throughout the entire evaluation and onboarding process

## A TRUE MULTI-ASSET PLATFORM

TORA provides access to over 500 of the latest multi-asset broker algos and allows you to trade across a variety of asset classes including global equities, futures, options, FX and convertible bonds.

EQUITIES

FUTURES

OPTIONS

FX

CB's

# TORA PRODUCTS

## ORDER & EXECUTION MANAGEMENT SYSTEM

TORA's industry-leading, multi-asset cloud-based OEMS offers state-of-the-art solutions for all your trading needs. Our OEMS gives buy-side and sell-side users access to execution management, order management, post trade, reporting, TCA and compliance functions in a single platform.

### KEY ELEMENTS OF TORA'S OEMS

EMS	OMS	TCA
STOCK BORROW	REBALANCING	PAIRS TRADING
COMPLIANCE	POST TRADE	REPORTING

#### EXECUTION MANAGEMENT

- Easy-to-use interface with unmatched flexibility to suit your trading workflows
- Access a broad network of brokers and venues via TORA FIXNet and other major FIX networks
- Access the very latest multi-asset broker algorithms
- Basket orders, position-based orders, parent/child orders and pairs orders
- Fast order input capabilities, one-click order entry and drag and drop order amends
- On-screen audit trail of all trades and actions made
- Powerful alerts engine for market and order monitoring
- Access to best-in-class proprietary TORA pairs trading algo suite
- Access to leading proprietary TORA FX algorithms

#### COMPLIANCE

- Advanced rule and limit features to improve compliance without impacting workflow or affecting latency
- Permissioned OEMS users can quickly set up new compliance checks
- Automation for restricted trading lists
- Flexible workflows with optional approval protocols
- Large library of portfolio and trading based compliance checks
- New rules delivered dynamically without requiring upgrades
- Sub-millisecond latency and high-throughput portfolio and trading compliance engine
- Websockets API delivery with approval and reject capabilities for any third party system

#### TRANSACTION COST ANALYSIS

- Quality broker-neutral post and pre-trade TCA
- Pre- and post-trade TCA from the same provider for an optimised feedback loop
- Our AI-powered pre-trade TCA is a quantitative optimizer providing traders with real-time broker execution strategy recommendations
- Our Quantitative Best Execution team have been delivering market-leading post-trade TCA since 2011
- Both available in real time in the traders' blotters or in the TORA visualisation and reporting tool
- View performance versus a range of standardised benchmarks
- Partitioned and ranked by broker, country, sector, strategy or any required split

## ORDER MANAGEMENT

- Organise orders, rebalance portfolios and monitor positions and P&L from the same interface as you manage your market executions
- Allocations and commission management engine with smart defaults improve data integrity
- Integrations with prime broker and fund admin platforms
- Real time positions and P&L monitoring
- Transaction history available directly from the GUI

## POST TRADE

- A comprehensive range of post-trade functions to create a truly Straight Through Process (STP)
- Two-way integration with leading trade matching providers
- Support for complex rounding and aggregation methodologies per counterparty
- Block formation and allocation
- Cancel / re-book trade framework for seamless revisions and reporting
- Advanced commission, cost and fee schedule management
- TORA Order Audit Trail System (OATS) reporting
- ARM integrations and other regulatory reporting solutions

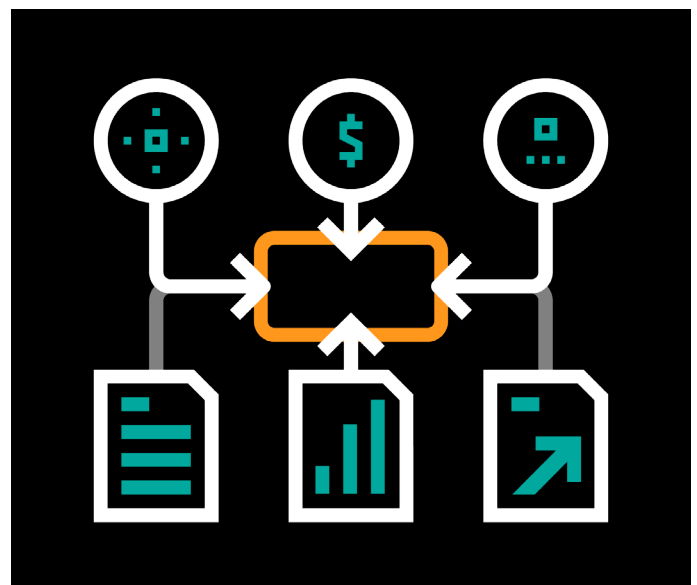
## REPORTING

- State-of-the-art reporting service allows you to see and report on your trading operations at all times
- Integrated with analytics and data visualisation platform
- Perform calculations on any data source and create reports with advanced charts
- Access via web or mobile device

## PORTFOLIO MANAGEMENT SYSTEM

TORA's portfolio management system is utilised by the industry's leading hedge funds, asset managers, proprietary trading firms and sell-side trading desks globally, with all your data organised in one place. Our PMS solves a critical challenge; capturing trade and market data from a variety of sources, merging it with internal and external pricing sources, performing calculations and then delivering it to the right people at the right time.

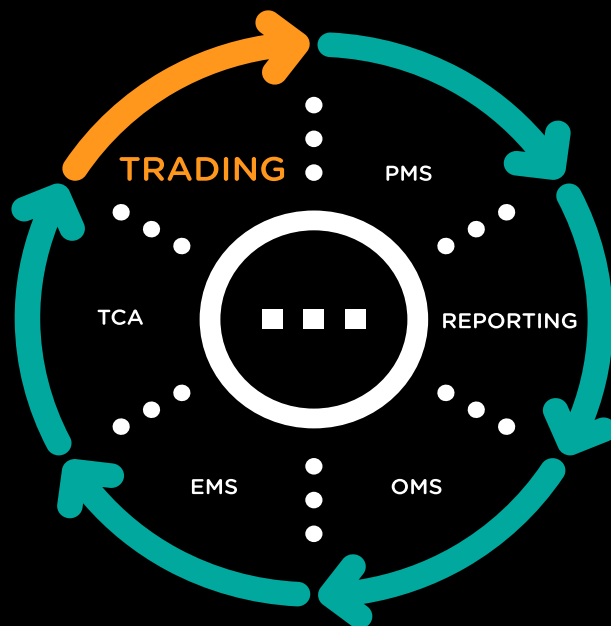
- Real-time and historical P&L over any time interval or at any point in time on-the-fly
- Create new views on portfolios with up to 500,000 positions in seconds
- Capture trades on any asset class and price using TORA valuation models, or via integrations with 3rd party providers
- Unmatched borrow management functionality
- Managed corporate actions and reference data
- Flexible, real-time portfolio and analytics views and powerful API function
- Real-time trade capture builds historical, audited, and reconciled book of records
- Automated trade matching, regulatory reports, and borrow contract management



## OUTSOURCED TRADING

Our outsourced trading offering is fully integrated into our cloud-based front-to-back office technology provider for the buy-side. We provide everything our customers need to run a fund. This includes Order and Execution Management Systems, embedded pre-trade Compliance, pre and post trade TCA, proprietary Pairs trader, and Reporting; all built in-house and available individually, or as an integrated, unified platform.

- **EXPANDED COVERAGE** to global markets
- **CONNECTIVITY** to TORA's full suite of trading products and tools
- **OPTIMISED TRADING CAPABILITIES** while minimizing overhead costs
- **SUPPORT** for in-house trading desks and enhanced business continuity plan
- **HIGH THROUGHPUT CAPABILITIES** managing large order volumes and complex workflows
- **BROKER TRANSPARENCY** with global market access across multiple asset classes
- **FLEXIBILITY** to choose when you want to trade without having to hire more staff
- **LEVERAGE** our global team as a conduit to information and liquidity
- **BUSINESS CONTINUITY** with an enhanced BCP and the ability to fulfill increasing operational and reporting requirements of fund allocators
- **VISIBILITY** with full access to our systems & order implementation process
- **CONNECTIVITY** to 500+ brokers globally with 120+ brokers in Asia
- **A GLOBAL TEAM** of experienced traders based in Asia, Europe and the US



## PAIRS TRADER

With TORA Pairs Trader, TORA OEMS clients can simultaneously trade cross asset class, cross market and cross currency pairs on different exchanges instantly, with each leg being optionally traded with different brokers. TORA Pairs is broker neutral and enables users to control the execution of their pairs through a series of highly flexible parameters including, slice size, wave management (concurrency), execution style, leg strategy and automated rules to manage unhedged risk (slippage).



**BROKER  
NEUTRAL**

**CROSS  
ASSET**

**MULTI  
MARKET**

**RISK  
MANAGEMENT**

## WHY TORA?

### ZERO I.T. OVERHEADS

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We manage the entire I.T. spectrum, so you can focus on what really matters!

- Software
- Hardware
- Integrations
- Data Feeds
- Disaster Recovery

### FLEXIBLE & CUSTOMISABLE

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TORA's system is highly customisable and configurable, providing clients with functionality that best suits their individual requirements with unrivaled turnaround times.

### SCALES WITH YOUR BUSINESS

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Our technology seamlessly grows with your existing technology.

### UPGRADE YOUR TECHNOLOGY

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Our market-leading cloud-based front-to-back office technology helps both the buy-side and sell-side;

- Improve execution quality
- Enhance operational workflow
- No bolt-on, legacy software
- Assure superior reliability

### WE BUILD GREAT SOFTWARE

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We are a proud independent firm. No mergers, no acquisitions. All of our software is built in-house by our industry-leading team of experts. Great products, integrated from the start.

### ESTABLISHED AND TRUSTED INDUSTRY LEADER

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TORA is a proven, award winning industry leader within the multi-asset OEMS space. Our suite of sophisticated trading products are utilised by hundreds of the industry's leading hedge funds and asset managers, proprietary trading firms and sell-side trading desks globally and have continued to evolve over our 16 year history.

### TORA MOBILE

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TORA's Mobile app provides instant access to our award winning institutional trading platform for traders, asset managers and hedge funds looking to trade and monitor their portfolios on the go. Our innovative mobile application gives clients instant access to the platform's comprehensive functionality anywhere, anytime. At the touch of a button, traders can place orders, ensure best execution, view real time data and detailed analytical reports.

## OFFICES

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For more information or to arrange a demonstration of our system, contact a TORA sales representative at [sales@tora.com](mailto:sales@tora.com)