

Release Notes

We are constantly adding new features to extend the AlgoTrader funcionality and make it more efficient – to provide our clients with the best possible trading experience.

Find below the list of our latest release notes including recent changes in AlgoTrader.

Version 6.0

New adapters

- Deribit
- Huobi
- OKEx & OKCoin
- Kraken
- BitHump
- Level II order book
 - Level II order book for all adapters/exchanges
 - Order book UI
 - Order book events available to strategies
 - Aggregated order book across exchanges
 - Execution algo exchange selection based on order book data
- Integration of Hazelcast Cache
 - Replacement of the previous Level Zero Cache
- Example strategies
 - NLP strategy
 - Short Strangle strategy
 - Delta Hedge strategy
- Other
 - Reference data can now be downloaded automatically upon startup
 - Subscribe and unsubscribe during InfluxDB based back tests



Version 5.2

- Generic events
 - Full support for generic events that can contain (i.e. corporate actions, external signals, alternative
 - data, and news / social-media-sentiment data)
 - Strategies can subscribe to these events for analysis and signal generation
 - Generic events can be persisted in InfluxDB
- OTC RFQ Functionality
 - Full support for RFQ (Request for Quote) processes
- New adapters
 - Intrinio
 - Binance
- User Interface extensions
 - Visualization of orders and execution in the TradingView chart
 - Integrated RFQ functionalities
- Historical data management
- Persistence of Trade and Quote into InfluxDB
- Example strategies
 - Spreader example strategy



Version 5.1

- Strategy development
 - Full Python support

Version 5.0

- Order Execution
 - Smart order routing (SOR) execution algos
 - Algo order entry UI
 - Algo order parent / child display
 - Algo order persistence
 - Display Algo Order State in UI
 - Order Custom Pre-Trade checks
- New adapter related extensions
 - Crypto-adapter order reconciliation on WebSocket reconnect
 - Generic inbound FIX interface
 - Handling of crypto Fees
 - Support for crypto withdrawals & deposit address query
 - Encryption of API keys
 - Support non spot-cryptos with CoinAPI
 - Make send, cancel & modify order non-blocking



New adapters

- coinbase Prime & Pro (GDAX) adapter
- Exante
- Strategy development
 - Python strategy live trading support
 - Subscribe to Account/Deposit events via WebSocket
 - JSON based properties on all Entities
- AlgoTrader UI
 - Reference data management UI
 - Historical data management UI
 - Display of CashBalances in the UI
 - Perpetual swaps P&L calculation
 - Add Trade Action to Market Data & Position table
- Others
 - Migrate UI Entities to TypeScript
 - Spring profile validation on startup
 - Disseminate LifeCycleEvents event to strategies running in distributed mode
 - Run flyway-migration on startup
 - Eliminiate FutureFamily, OptionFamily, GenericFutureFamily and BondFamily
 - Merge FeedType, Broker and OrderServiceType
 - Upgrade to Java 8 Date/Time API

Version 4.5

- User Interface extensions
 - Allow Trading View chart to display data from historical data adapters
 - Switch UI tables to AG Grid
 - Switch UI to TypeScript
 - Add React DataGrid update throttling
 - Enable CSV Export
 - Improve security search experience
 - Show execution algo properties in the UI



New Adapters

- PrimeXM
- SocGen
- Bitflyer
- Bitfinex
- Bitstamp
- Binance
- BitMEX
- CoinAPI
- CoinMarketCap
- Historical Data Management
 - CoinAPI historical data download
- New Adapters Related Features
 - Implemented crypto margin and exchange trading
 - Balances download
 - Withdrawal of cryptocurrencies
 - Fees can be configured in %
 - Currency code mappings
 - Automatic connection gap detection
 - Automatic reconnect
 - Rest and WebSocket message synchronization
- New execution algos
 - TWAP
 - VWAP
- Others
 - Use Swagger for REST API documentation



Version 4.0

- Major Changes
 - InfluxDB integration
 - Cryptocurrency trading through Coinigy
 - Support HTML customizations
- New Adapters
 - Coinigy
 - QuantHouse
 - Nexus Prime
 - UBS
 - Quandl
- Historical Data Management
 - use InfluxDB time-series-database
 - Quandl Historical Data Download
- Market Data
- QuantHouse low latency market data
- Live data recording
- Ad-hoc bar aggreation
- Propagate BidVO, AskVO and TradeVO events to strategies
- Domain Model
 - Decimal quantities on Orders, Transactions, Positions, etc.
- Order Processing
 - ExecutionModel
 - Support OrderCompletion events for AlgoOrders
 - PositionMutationEvent
- Backtesting
 - Stream Historical Data from InfluxDB
 - Base Strategy Name
- IB Interface
 - Process IB RTVolume
 - IB calendar spread support
 - IBOrderIdSynchronizer



Archetypes

- algotrader-archetype-simple
- algotrader-archetype-esper
- Example Strategies
 - EMA strategy
 - Random strategy
 - HTML5 based example strategy monitoring

Version 3.0

- Major Changes
 - HTML5 based web frontend
 - Docker based installation and deployment
 - Excel based back test report
 - Execution algo API redesign
- New execution algos
 - VWAP
- _____
- Target position
- Trailing limit
- Installation & Deployment
 - Use of Flyway command line
 - Generate separate assemblies for client & core
- Domain Model
 - Added CNH, CZK, DKK, HUF, ILS, MXN currencies
 - Generate VOBuilders
- Database
 - Security family & security mapping changed to one table per hierarchy
 - Updated database sample data
- Esper
 - Added ExponentialMovingAverage function
 - Engine callback API redesign
- Futures & Options
 - Added future monthYear



Market Data

- CvsTypeCoercer to accept yyyy-MM-dd HH:mm:ss format
- Market data price normalization
- Adapters
 - Added DropCopy for TT & LMAX
- Events & Messaging
 - Added embedded ActiveMQ message broker
 - Added Websocket infrastructure
- Processes & Networking
 - Added embedded Jetty HTTP server
 - Added optional TLS transport security & BASIC auth

Version 2.3

- Strategy Development
 - Support for strategy groups
 - Added local MarketDataCache
- Simplified strategy starters
- Adapters
 - Added Trading Technologies Fix interface (trading, market data & reference data)
 - Added Fortex Fix interface (trading & market data)
 - Added FIX session life cycle events
 - Add Trading status events for LMAX
 - Redesigned IB interface
 - Added suport for fix-jdbc-message-store
 - Support custom logging per Fix session
- Event Handling
 - Added event dispatch framework
 - Added event listeners
 - Added strategy life cycle events (INIT, PREFEED, START & EXIT)
 - All events are now ValueObjects
- Distributed Cache Manager
 - LookupService now uses CacheManager instead of DAO's
 - CacheManager / GenericDao are now available to strategies



- New entity / VO generation framework
 - Added Entity Visitors
 - Entities, Entity Interfaces, Value Objects and Entity to VO Converters are now generated using

Hibernate tools

- Entity identifiers now use long instead of int
- Enhanced equals and hashCode methods
- New DAO Framework
 - AbstractDAO is now base class of all DAO's
 - Finders have been moved to Hibernate.hbm.xml
- Esper Enhancements
 - Enhanced syntax for Esper statement subscribers
 - Esper Engine is now configured through Spring
 - Replaced EngineLocator with Spring EngineManager
 - Strategy initModules and runModules are now configured through Spring
 - Spring Services are now available to Esper statements directly
- Order Management Enhancements
 - Replaced Esper based OpenOrderWindow with Java based OrderRegistry
 - SlicingOrder: assure minimum quantity on the last slice
 - Exchange can now be set directly on an Order
 - OrderStatus events now include lastQuantity attribute
- Miscellaneous Enhancements
 - Migration to Spring Configuration annotations
 - Harmonized date / time formats
 - New Entity Security Reference
 - GoogleFincanceDownloader
 - Enhanced reset service
 - New Reports TradeReport & PortfolioReport
 - Updated DB sample data
 - Remove margin / exit value from position
 - Remove support for server side close position
 - Trading hour definitions are now optional
 - Client now shows unrealizedPnL & FX Exposure



- Isotary And Anton And Anton And Anton And Anton And Anton Anton And Anton And Anton And Anton And Anton Anton And Anton And Anton And Anton A
 - Java 1.8
 - Esper 5.2.0 (5.3.0?)
 - Hibernate 4.x
 - Spring from 3.x to 4.x
 - Log4J 2.x

Version 2.2

- Additional Fix Trading and Market Data Interface
 - LMAX
 - FXCM
 - Currenex
 - DukasCopy (added market data interface)
- Add Calendar Service, Exchange, Trading Hours and Holidays)
- Eclipse based strategy creation wizard
- Eclipse based config editor
- New configuration manager
- Support custom order properties
- Generic symbology resolver
- Persist order and order status to database
- Report Manager
- Weekly options
- Market-on-open, limit-on-open, market-on-close and limit-on-close
- Order completion event
- Order recovery
- In-process exchange simulator
- Add flyway for database migration
- Add csv diff tool
- Isometry And Arty Library updates (Esper 5.1.0)



Version 2.1

- New Instruments: Bond, Fund & Commodity
- Overhaul AlgoTrader Reference Data Manager (based on Grails)
- RealTick Fix interface
- Fix market data interface
- Enable multiple concurrent market data streams
- AlgoTrader Maven Archetype to generate new projects
- Embedded in-memory DataSource based on H2 database
- Bloomberg Historical data and security retriever interface
- BreakOut Example Strategy
- Allow broker specific parameters (e.g. commissions)
- More flexibility on market data file naming
- ManagementService: allow securityId, symbol, isin, bbgid, ric and conid for security definition
- Switch from LIFO to average cost
- East-to-Borrow list for stocks
- Overhaul Esper Engine management (EngineLocator, Engine, AbstractEngine and EngineImpl)
- Overhaul Spring Proxy generation
- Enable client specific code generation based on UML
- In the second second

Version 2.0

- Multi Account Handling
- Bloomberg Market Data Interface
- Level-Zero Cache
- New Execution Algorithm "Disbtributional"
- InteractiveBrokers Financial Advisors Handling over FIX
- SABR Option Pricing Engine
- Single-JVM Live-Trading Mode
- Eclipse Colorer Integration
- Support for Global Industry Classification Standard (GICS)
- Relate Component to Combination instead of Security
- DocBook based documentation
- Add JavaDoc Comments



- Client Expert Mode
- Isotary And Antiparty A
 - Esper 4.9
 - Spring Framework 3.2.3
 - Spring Integration 2.2.4
 - Hibernate 3.6.10

Version 1.12

- Esper 4.8
- Use Spring integration for mail reconciliation
- Esper Threading
- Hibernate Locking
- Portfolio Value Restoring
- OpenPositionCallback / ClosePositionCallback
- Generic approach for Bars and Ticks
- FIX

- FIX 4.4
- DukasCopy Fix interface
- Init orderId from log-file
- Weekly Fix logon/logoff
- Client
 - Markers, Annotations, Description & Crosshair
 - Monitoring & Rechability Checking & Notifications
- Market Data Snapshots
- Strategy Properties
- Market Data Gap Checking
- Position Realized P/L
- Handle crossed spreads

Version 1.11

- Reconciliation (IB / RBS / UI)
- SimpleOrders vs AlgoOrders (e.g. SlicingOrder)
- Fix Interface



- OrderPreference
- PorfolioValue logging and charting
- MailMessageReceiver
- AndroMDA 3.4
- ForexFuture / FX Hedging by ForexFuture

Version 1.10

- GenericEvents
- Update Charting Functionality (add Indicators & Bars)
- JMX over SSL

Version 1.9

- SyntheticSecurities (Combinations / SyntheticIndices)
- AlgoTraderSSHClient
- PropertyService / PropertyHolder / Property
- Improve Hibernate Sessions Handling / Caching
- Metrics Logging

PortfolioService

General performance optimizations

Version 1.8

- IncrementalLimitOrder
- HistoricalDataService HistoricalBars
- MBean annotations
- SecurityFamily TickSizePattern
- Measurement & MeasurementService

Version 1.7

- Update ServiceLocation & configuration
- Separation of code into core and common
- Update account functionality
- Reconciliation
- OrderValidation
- TWS 921.5 / IB Gateway 921.5 / IB Client 9.65 / IBController 2.9.0

Esper 4.5



Version 1.6

- TickCallback and OrderCallback
- Combinations & allocations
- Asynchronous event propagation using ActiveMQ
- Convert Model to UML2.0
- Esper 4.4

Version 1.5

- async Order & MarketDataService
- Esper 4.3

Version 1.4

- GenericFutures
- Cash balances & FX-equalization
- Management service diagrams
- MarketDataEvents (Bars, Bid, Ask & Trade)

AndroMDA 3.4 SNAPSHOT

Maven 2

Esper 4.2

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About AlgoTrader

AlgoTrader is the global institutional leader in algorithmic trading and execution infrastructure for both digital and traditional assets.