Product Presentation

BESTstudio
from **Allied Testing**

Description

1. **BEST Studio is a simulation platform**

BEST Studio enables simulations, tests and experiments that verify and improve systems.

2. **BEST Studio is a testing tool**

BEST Studio manages testing and development scenarios that can be used to refine software, systems or trading strategies.

3. **BEST Studio is a team integration tool**

BEST provides unified testing tool for all stages of product development.

4. **BEST Studio is a product management tool**

BEST Studio helps manage product development for improving product quality and reducing time-to-market for software systems or trading strategies.

Market Finance and Trading Requirements

✓ Minimize mistakes—mistakes mean money

✓ Time to market is critical

✓ Adapt to changes in communication protocols and market rules

✓ Engineers must improve product quality and increase their confidence in trading strategies

Value Proposition

BEST Studio saves money:

- ✓ **How much does a software defect cost the company (in financial terms and good will)?**

  - o With BEST you can run scheduled regression tests on new components to make sure new features do not break existing functionality.

- ✓ **How much does a capacity outage cost the company?**

  - o With BEST you can stress test each component of a system to determine the capacity and you can be proactive in solving any potential issues.

- ✓ **How long does it take a trader to bring an algorithm online? And how much infrastructure is usually needed?**

  - o With BEST a trader can simulate the markets and test algorithms before a large capital expense is incurred. The algorithm can be tuned to be the most profitable using BEST instead of and before trading.

Who is BEST Studio for?

✓ **Software Developers**

For integration testing and agile but systematic revisions.

✓ **QA Engineers**

For regression, connectivity or performance testing.

✓ **Algorithmic Traders**

For testing strategies, with agile deterministic simulations..

✓ **Analysts and Project Managers**

For designing and developing products and strategies for modern marketplaces, working in teams or individually.

Business Users

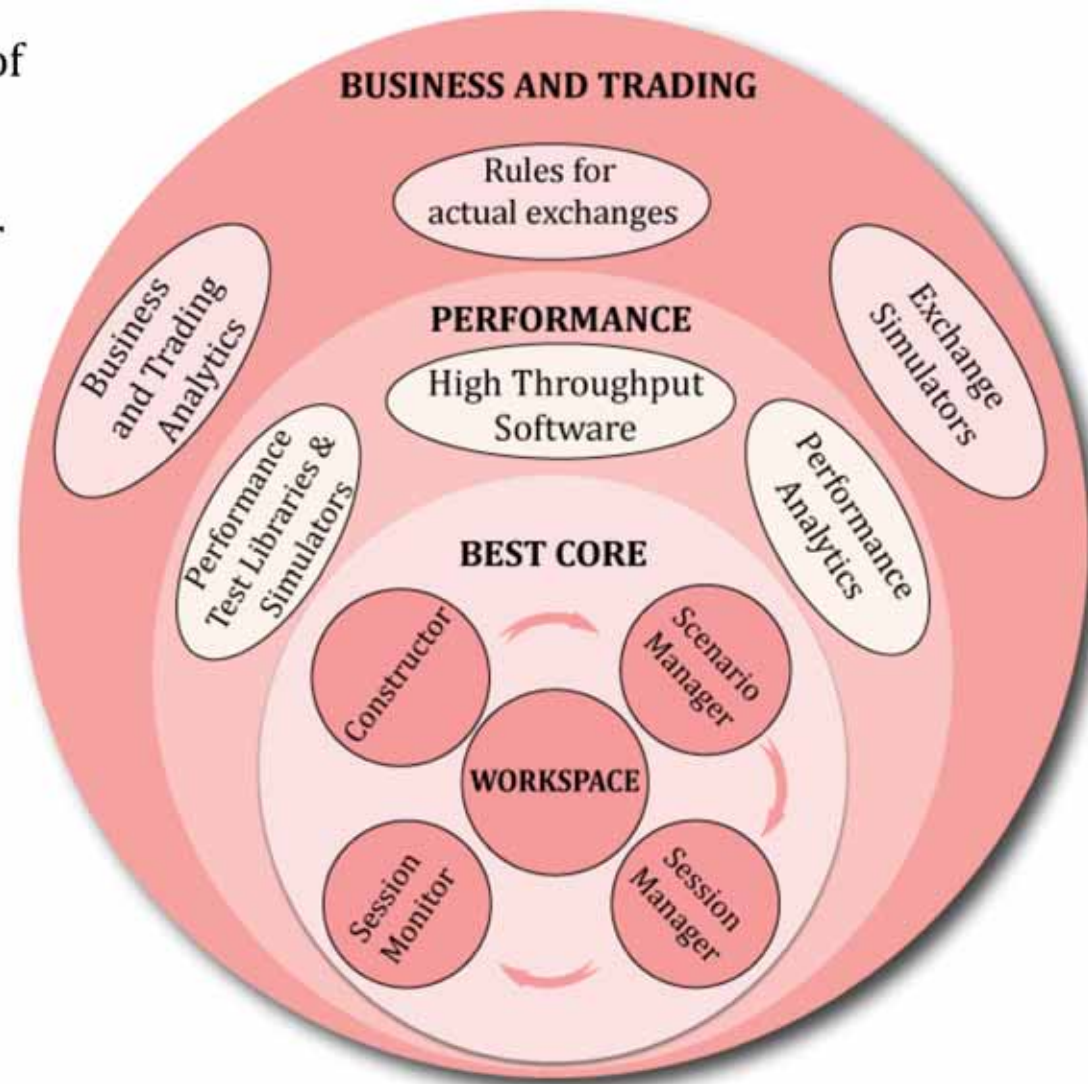| Case	Solutions Delivered
High-Fidelity Market Simulation for Front Office Products	▶ Realistic simulation system behavior within actual or artificial markets for use in development, design validation, tuning and comparative analysis. ▶ Convenient way to compare simulations across multiple data sets, code versions and business scenarios.
Evaluating Return on Investment in Collocation Facility	▶ Predict and quantify benefits of investment in collocation facility without investing in trading infrastructure, data collection and analysis devices and legal/operating costs of collocation.
Cost benefit analysis of new products and trading platform launches for Exchanges and ECNs	▶ Estimate demand, opportunity and potential profitability of constructing new exchange platforms or adding new products to existing platforms, quickly and economically. ▶ Determine optimal location and capacity of infrastructure supporting new products.

IT Users

Case	Solutions Delivered
Performance Testing Order Gateways	▶Reproduce different load scenarios for a live gateway application. ▶Test the order gateway under high load using typical order types. ▶Determine the throughput capacity of the application. ▶Determine the latency of messages under different loads.
Functional SOR Testing	▶Full control over both the simulated Order Books and the Market Data. ▶Test script controlling the parent orders and the market activity. ▶Tracking of each transaction through its complete lifecycle. ▶Validation of order parameters on every stage of a test script.
Functional OMS & DMA Testing	▶Full coverage of business transactions (orders, quotes, trade reports). ▶Full spectrum of controllable market responses. ▶Complex test scenarios to cover any business logic. ▶Receiving consistent, reproducible results for regression tests.

Structural Overview

BEST Studio consists of modules that can be combined to target analytical, technical or business users.

Configurations

Performance

For developers, testers and network engineers working with products sensitive to latencies and other performance bottlenecks.

- Performance Analytics
- Performance Test Libraries & Simulators
- High Throughput Software

Business and Trading

For Front Office Product and Strategy Developers, Product and Project Managers, Quantitative Analysts and Traders.

- Business and Trading Analytics
- Rules for actual exchanges
- Exchange Simulators

BEST Core

For QA engineers and core system developers.

- Constructor
- Scenario Manager
- Session Manager
- Session Monitor

Components

BEST Studio

WORKSPACE

Links BEST Studio with standard source control applications and QA packages.

CONSTRUCTOR

Builds virtual financial environments for developing and testing customers strategies and applications.

SCENARIO MANAGER

Defines and manages scenarios, tests and market data experiments.

SESSION MANAGER

Runs and manages session results.

SESSION MONITOR

Interprets session results and monitoring sessions in progress.

BEST Data Manager

- Records, processes and manages the market data used in tests and simulations.
- Stores session results for comparative analysis.
- Uses high-frequency data storage engine based on PostgreSQL for storing large volumes of data.
- Customers can link Data Manager to their databases without loss of functionality.

BEST Evolution

- Provides a historical view of product development.
- Navigate between different product versions, test versions, data and results.
- Organizes product versions, obtained business results and the conditions in which these results were obtained.
- Helps decision-makers to determine the best product development path and route to markets.

Test Libraries

Data Feeds Converters

Protocols Adapters