



## Transform your Front Office Process with Syntel's Charles River Solutions

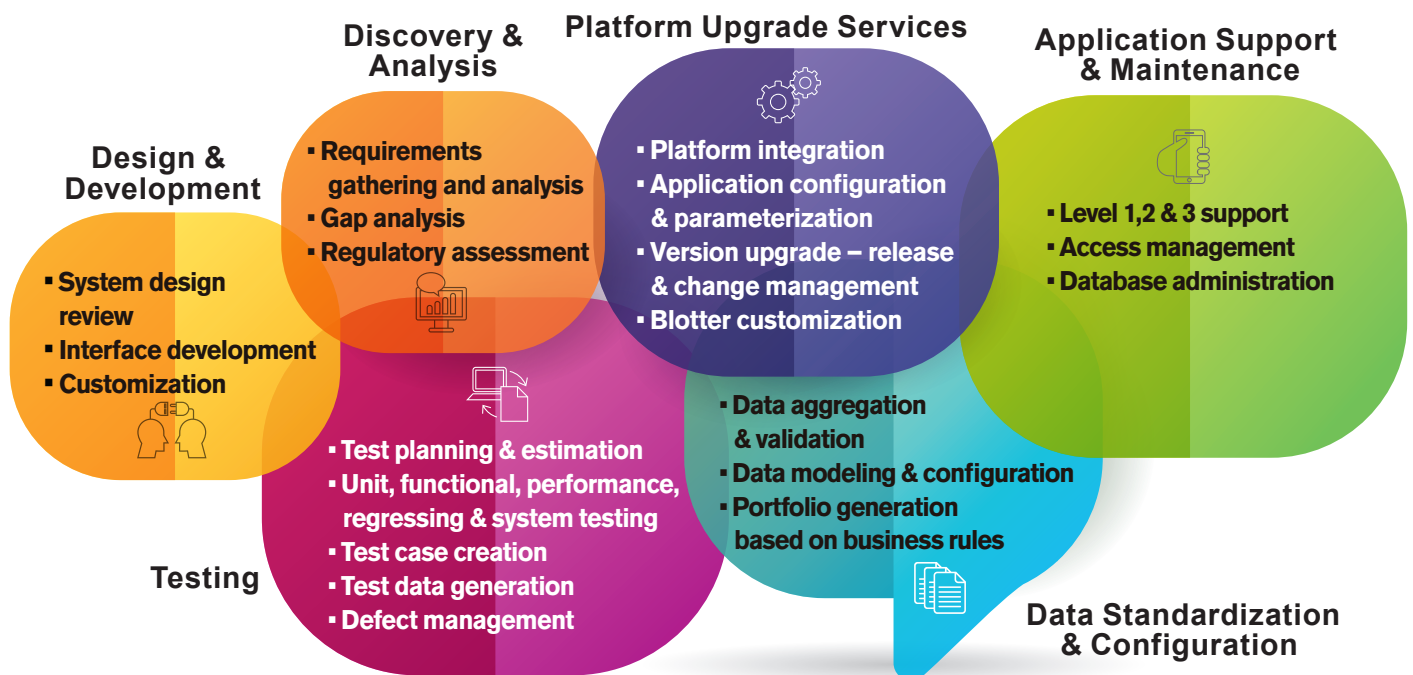
Buy-side firms are under pressure from regulators, investors and shareholders to speed up trades, enable trade data analytics and enhance compliance. This has created the need to replace slow, complex legacy front-office trading applications and tools with commercial off-the-shelf products that can scale globally across all asset classes. However, this transformation journey poses a number of challenges, including:

- **High cost of migration:** Huge ongoing cost involved in retiring legacy platforms
- **Data inconsistency:** Varied sources of data in heterogeneous formats impacts quality
- **Technology challenges:** Integration issues caused by multiple platforms and new technologies
- **Time constraints:** Limited time available for implementation across geographies

Syntel's services for the Charles River Investment Management Solution (CRIMS) help firms transform their front office processes and address the challenges above in a cost effective and timely fashion. CRIMS serves a number of vital and delicate business lines, so a successful implementation is an important milestone for any organization.

### Syntel's Solution

Syntel's Charles River solutions can help your organization to improve trade execution and management, simplify and streamline operations, and diversify and expand your products across different geographies. Our portfolio of services includes:



All these services are informed by a detailed analysis of your environment which incorporates keeping in view the CRIMS functionality and detailed requirements like:

- Reference Data Setup
- Portfolio Management
- Trading
- Compliance
- Import/Export
- Reporting
- Post Trade
- End of Day setups
- Administration
- Reconciliation
- Technical Analysis

## Differentiators

Syntel delivers a combination of outstanding value and fast time-to-market with custom-built tools and accelerators.

- **SmartData:** Data quality tool for profiling, standardizing and enriching data
- **Data Validator:** Flexible validation rules engine for testing data transformations
- **Test Case Generator:** Automatically creates test cases for different asset classes
- **Test Data Generator:** Fetches data to be customized and mapped to the required test cases
- **Quick FIX:** Automatically executes FIX test cases
- **CRIMS API Utility:** Execute bulk trades in the CRIMS environment without using CRIMS UI
- **Run Book Generator:** Generates all possible test scenarios and retrieves valid trade data from CRIMS

## Delivering Excellence

Leading investment management firm

Business Goal	Syntel Solution	Benefits Delivered
<ul style="list-style-type: none"> <li>▪ Business, Data and FIX message validation in pre and post-trade scenario</li> <li>▪ Reduce regression testing time for CRIMS upgrade</li> <li>▪ Automate order execution and response</li> </ul>	<ul style="list-style-type: none"> <li>▪ Upgraded CRIMS version from V8 to V9</li> <li>▪ Validated FIX messages during the upgrade process using Quick FIX automated tool</li> <li>▪ Developed and integrated an automated order execution and response utility</li> <li>▪ Created workflow using BPMN and Test Case Generator to automatically create test cases</li> <li>▪ Automatically generated test data</li> <li>▪ Executed 4,800+ test cases for 105 instruments across all asset classes</li> </ul>	<ul style="list-style-type: none"> <li>▪ Automated 95% of the test cases</li> <li>▪ Increased test coverage by 50%</li> <li>▪ Reduced testing time by 50%</li> </ul>

## BUSINESS BENEFITS

- 99.5% data quality accuracy
- 50% reduction in testing cycle time
- 25-30% improvement in operational efficiency
- Faster time-to-market

## CHARLES RIVER FEATURES

- Compliance lifecycle monitoring
- Order & Execution Management (OEMS)
- Portfolio & risk management
- Asset allocation & rebalancing
- Performance measurement & attribution
- Comprehensive rule libraries
- Automated smart order routing
- Real-time market data
- Data charting & visualization
- Broker & commission management