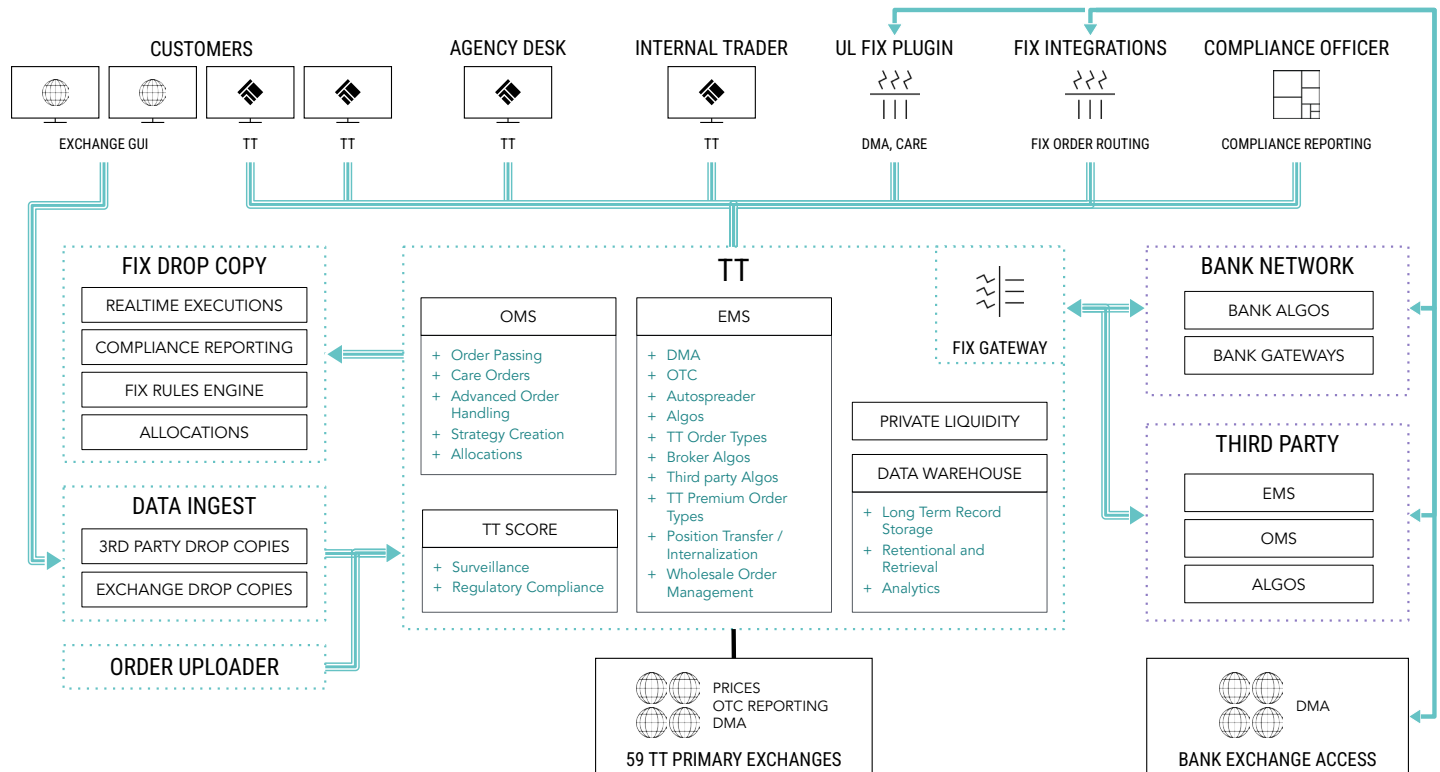


STREAMLINE FIRM-WIDE ORDER MANAGEMENT AND EXECUTION WITH TT[®] OMS

With a global order book, an integrated order management system (OMS) and a comprehensive suite of order execution capabilities, TT provides a powerful solution for handling customer order flow.



TT OMS is seamlessly integrated alongside our advanced execution tools on TT's Software-as-a-Service (SaaS) platform. With our open platform, users can manage order flow from any execution management system (EMS) or order management system (OMS) through FIX, and our high-touch workflows give execution specialists the flexibility to manage and execute orders across multiple desks. Our advanced execution tools enable unique capabilities to fulfill high-touch orders, while flexible post-trade allocation and reporting provide a streamlined end-to-end experience for global execution desks.

FEATURES

OPEN PLATFORM

Accept order flow from any EMS, OMS or algo provider via FIX.

HIGH-TOUCH WORKFLOWS

Accept, manage and execute orders, and conduct post-trade confirmations and allocations.

FIX ROUTING

Route orders via TT FIX Gateway to any number of destinations, including bank networks, private liquidity pools and third-party systems.

GLOBAL ORDER BOOK

Control the visibility of customer orders and pass ownership to another user, group or desk.

EXECUTION TOOLS

Leverage ADL®, Autospreader®, TT Order Types, TT Premium Order Types, broker algos and third-party algos for superior execution on dozens of colocated exchanges worldwide.

INTERNALIZATION

Take advantage of Position Transfer or private matching engines to improve executions and avoid crossing.

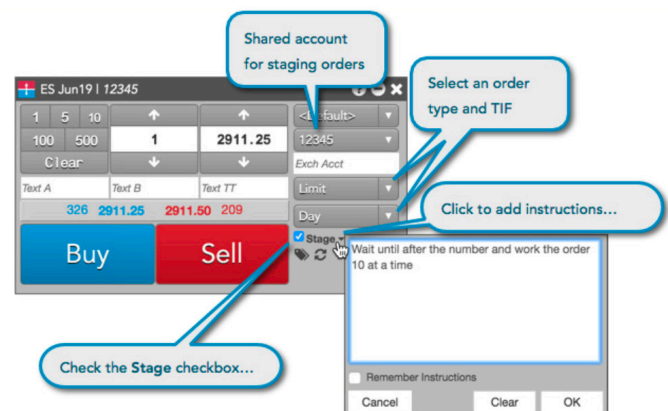
HIGHLIGHTS

- ◆ Dramatically improve transparency and accountability by consolidating all order management and execution on one platform.
- ◆ Open architecture provides 100% seamless OMS integration with your existing trading operations.
- ◆ Import accounts and account hierarchy from your back office.
- ◆ Receive alerts for order rejects, unsolicited cancels, wash trades and more.
- ◆ Automatically generate, schedule and send reports to customers.
- ◆ Generate compliance reports for various regulatory needs.

KEY CAPABILITIES

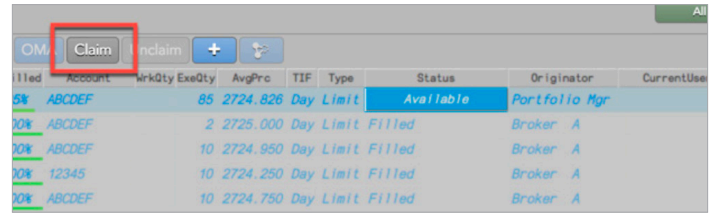
STAGING CARE ORDERS

In addition to staging care orders via FIX, TT supports screen-to-screen order staging. You can configure an order in the same manner as submitting an order to an exchange. You can select the Stage checkbox on the Order Ticket and optionally enter instructions for the desk. When the Buy or Sell button is clicked, the order appears in your Order Book and is routed to all users on the account.



CLAIMING CARE ORDERS

When a care order is submitted via FIX or a TT screen, anyone on the account will see the order in their Order Book with a highlighted status of “Available.” Another user on the account can claim the care order by clicking the Claim button or by clicking directly on the order’s Status field.



ORDER PASSING

TT’s global order book provides the ability to configure users and accounts in a way that facilitates order book sharing and order handover. You can create different groups for execution desks in different regions and pass ownership of working orders at the end of a shift to provide a “follow-the-sun” service to customers.

- ◆ Pass native exchange orders and customer care orders.
- ◆ Pass synthetic Autospreader orders.
- ◆ Pass synthetic TT Order Types.
- ◆ Working orders maintain queue position as ownership changes.
- ◆ All handover actions logged in the Audit Trail.

CARE ORDER EXECUTION

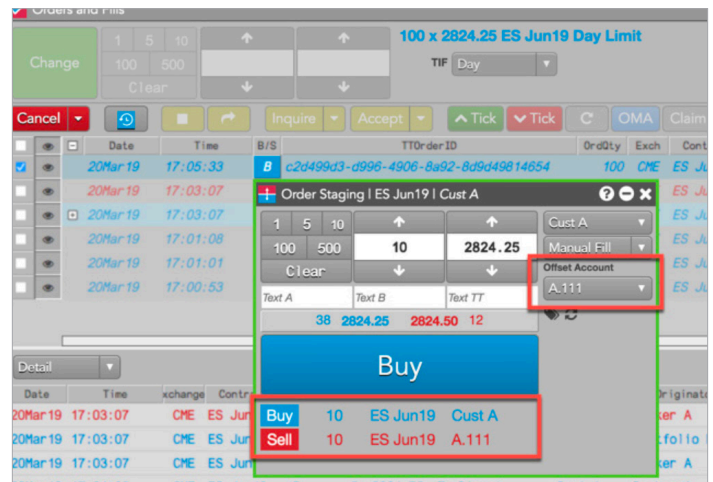
After claiming a care order, the user can view the order details and instructions, and can fulfill the order with a variety of functionalities, including:

- ◆ Submit orders directly to the exchange all at once or piecemeal.
- ◆ Utilize exchange order types, TT Order Types, bank and third-party execution algos and ADL algos.
- ◆ Leverage Autospreader to execute intra-product, inter-product and cross-exchange spreads.

- ◆ Manually fill an order from the existing inventory or with the intention to fill the order at a later time.
- ◆ Assign existing fills or orders to a care order.
- ◆ Bulk multiple orders for the same instrument into a single care order for more efficient execution.
- ◆ Stitch together a buy order for one expiry with a sell order in another expiry and execute as a spread.
- ◆ Use Lock and Release to hold the reporting of care order fills back to the client until ready.

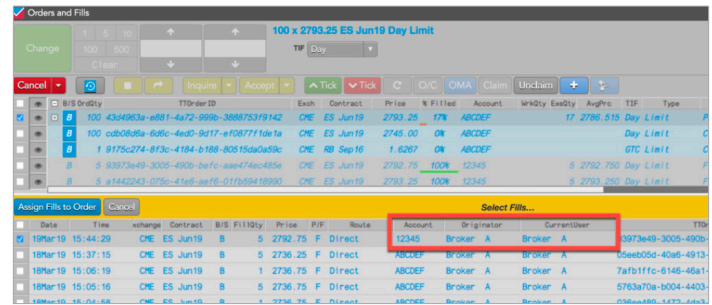
MANUALLY FILLING A CARE ORDER

By centralizing execution at a desk, companies have the power and flexibility to consider the firm’s overall position or conviction on market direction. When a care order is claimed, you can fulfill that order with a manual fill. If the firm has a position in the instrument, you can generate a manual fill for a care order and reduce inventory by the same quantity. If a firm doesn’t have a position but has an opinion on market direction, you can generate a manual fill for a care order and generate an offsetting fill for their own account—creating a position for the desk to manage



ASSIGNING FILLS AND ORDERS TO A CARE ORDER

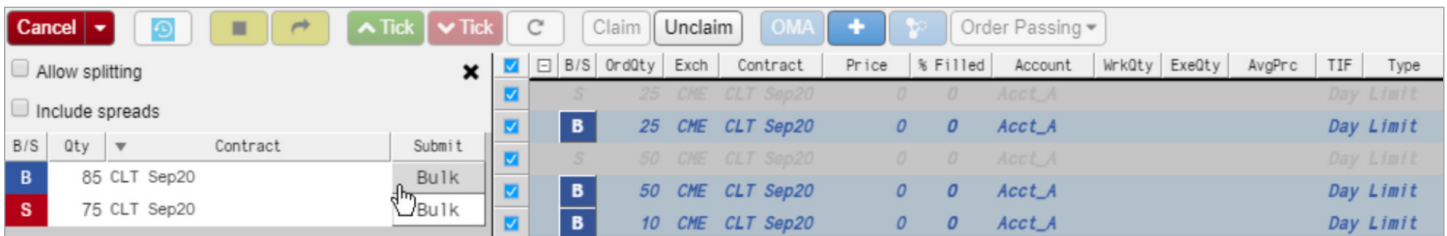
If a firm has existing fills or DMA orders that meet the criteria (instrument, direction, less than or equal quantity, and same or better price) for a care order, you can associate those fills or orders to the care order. In the Orders and Fills widget, you can simply select the care order in the Orders pane and select Assign fills or Assign Orders in the context menu. This filters the Fills pane to display all fills or orders that qualify for assignment.



BULKING

Bulking is a powerful feature that allows users to combine multiple care orders for the same instrument and direction into a single parent care order for more efficient execution. The Order Book widget provides the user convenient ways to bulk orders together. From the Order Book, users can select two or more care orders and select Bulk from the context menu, or they can easily drag and drop care orders on top of one another to create a parent bulked order.

A more powerful feature allows users to select the entire order book and select Combine from the context menu. TT automatically determines which orders in the book can be bulked and displays them in a separate pane. Once orders are bulked, the broker or execution specialist can fulfill the parent bulked care order the same as any other care order.



STITCHING AND SPLITTING

Stitching is another powerful tool that allows users to combine orders. Users can stitch multiple orders together that comprise exchange-listed spreads—calendars, butterflies, strips, packs, bundles, etc. By stitching orders together, users have much more flexibility to fulfill multiple care orders simultaneously—often at better prices due to more efficient spread markets.

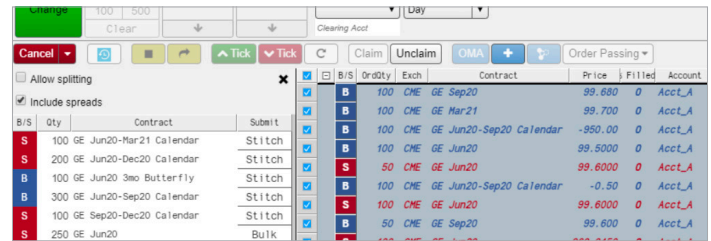
Splitting is a variation of stitching—if the quantities of the constituent orders restrict stitching, users can split one order into two, stitch the quantities that match, and work the remaining tails as a separate order. Users can alternatively stitch unbalanced orders from the orderbook context menu and work the remaining quantity as a tail. As with bulking, TT will display all possible combinations of balanced orders that can be stitched in the Combine tool.

ALLOCATIONS AND LOCK AND RELEASE

Since orders from multiple accounts may comprise a bulked or stitched order, allocations may be required to assign and report fills to each customer. TT supports multiple allocation methods, including:

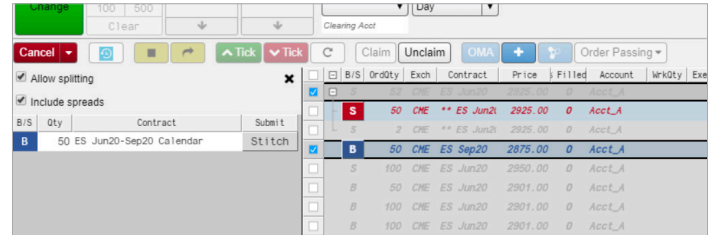
- ◆ Average Price
- ◆ Fill Price

Ordinarily, child order fills are reported back to the customer who staged the order in real time. Desks may need to hold the reporting of fills back to their customers until orders have been completely filled and allocations have been conducted. Lock and Release gives brokers and execution specialists this capability.



B/S	Qty	Contract	Submit
S	100	GE Jun20-Mar21 Calendar	Stitch
S	200	GE Jun20-Dec20 Calendar	Stitch
B	100	GE Jun20 3mo Butterfly	Stitch
B	300	GE Jun20-Sep20 Calendar	Stitch
S	100	GE Sep20-Dec20 Calendar	Stitch
S	250	GE Jun20	Bulk

B/S	OrdQty	Exch	Contract	Price	Filled	Account
B	100	CHE	GE Sep20	99.680	0	Acct_A
B	100	CHE	GE Mar21	99.700	0	Acct_A
B	100	CHE	GE Jun20-Sep20 Calendar	-950.00	0	Acct_A
B	100	CHE	GE Jun20	99.5000	0	Acct_A
S	50	CHE	GE Jun20	99.6000	0	Acct_A
B	100	CHE	GE Jun20-Sep20 Calendar	-0.50	0	Acct_A
S	100	CHE	GE Jun20	99.6000	0	Acct_A
B	50	CHE	GE Sep20	99.600	0	Acct_A



B/S	Qty	Contract	Submit
B	50	ES Jun20-Sep20 Calendar	Stitch

B/S	OrdQty	Exch	Contract	Price	Filled	Account
S	50	CHE	** ES Jun20	2925.00	0	Acct_A
B	50	CHE	ES Sep20	2975.00	0	Acct_A
S	100	CHE	ES Jun20	2950.00	0	Acct_A
B	50	CHE	ES Jun20	2901.00	0	Acct_A
B	100	CHE	ES Jun20	2901.00	0	Acct_A
B	100	CHE	ES Jun20	2901.00	0	Acct_A

CONTACT TT

Contact your local Trading Technologies representative or email sales@tradingtechnologies.com to learn more about TT OMS and the TT platform.