



CME iLink3: Pre-Registration Order Entry

Version 1.0

October 2024

This document and all related computer programs, example programs, and all Trading Technologies International, Inc. ("TT") source code are the exclusive property of TT, and are protected by licensing agreements, copyright law and international treaties. Unauthorized possession, reproduction, duplication, or dissemination of this document, or any portion of it, is illegal and may result in severe civil and criminal penalties.

Unauthorized reproduction of any TT software or proprietary information may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.

Information in this document is subject to change without notice. Companies, names, and data used as examples herein are fictitious unless otherwise noted. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of TT.

All trademarks displayed in this document are subject to the trademark rights of TT, or are used under agreement by TT. These trademarks include, but are not limited to, service brand names, slogans and logos and emblems including but not limited to: Trading Technologies®, the Trading Technologies Logo, TT®, ADL®, Autospreader®, Autotrader™, MD Trader® and TT CampusConnect®. All other referenced companies, individuals and trademarks retain their rights. All trademarks are the property of their respective owners. The unauthorized use of any trademark displayed in this document is strictly prohibited.

Revision History	4
CME iLink3: Pre-Registration Order Entry	5
“On Demand” vs “Pre-Registration”	5
Functional Description of the Pre-Registration Process.....	5
New Connection Types - Order Entry Service Gateway.....	5
Known Issues.....	6

Revision History

Date	Version	Description
October 24, 2024	1.0	Initial publication.

CME iLink3: Pre-Registration Order Entry

The current production released version of TT CME iLink3 Gateway utilizes the CME iLink3 “On Demand” order entry type for Convenience Gateway (CGW), which requires all orders to be sent to the exchange using two messages: (1) a Party Details Definition Request message and (2) an Order request message (e.g. New Order Single, Order Cancel/Replace, Order Cancel Request, etc).

The version newly released to UAT of will continue to support “On Demand” order entry and will also support the CME iLink3 “Pre-Registration” order entry type, allowing orders to be submitted to the exchange using a single order message alone.

“On Demand” vs “Pre-Registration”

“Pre-Registration” offers a significant throughput advantage, as each order is sent to the exchange as a single message, instead of two. For On-Demand order entry, TT recommends configuring Max Orders Per Second on the Connection to 250, while for Pre-Registration, the recommendation is 500.

Functional Description of the Pre-Registration Process

When an order add or order amend is sent into the market using a unique combination of Order Tag Defaults/Overrides, that unique combination will be stored in a TT Pre-Registration Database along with a corresponding CME Party Details ID. Every subsequent order sent using the same combination of Order Tag Defaults/Overrides will be sent to the exchange using the CME Party Details ID instead of the full collection of Order Tags. This type of order is referred to as a Pre-Registration Order.

TT defines "unique" as any combination of Order Tag Defaults/Overrides that has not previously been used by any user in the Firm during the current week.

New Connection Types - Order Entry Service Gateway

To Support iLink3 Pre-Registration, TT has added 2 new Connection Types to Setup called “Order Entry Service Gateway (OESGW)”

- Connection Types: The details required for configuration are identical to those needed for an order routing iLink session:
 - Order Entry Service Gateway - MSGW iLink 3
 - Order Entry Service Gateway - CGW iLink 3

- Purpose: The new TTUS connection will be used exclusively for pre-registering a Firm's administrative data (e.g. Party Details), the Order Entry Service Gateway will not handle order messages.
- Usage: Order Entry Service Gateway will establish a connection to the exchange to handle exchange pre-registration tasks.
- Configuration: Each Firm that plans to use Pre-Registration will be required to set up and configure OESGW Connections
 - For Convenience Gateway connections:
 - Each Session/Firm ID combination configured with an iLink 3.0 Convenience Gateway order entry connection will be required to have a corresponding OESGW connection in order to enable Pre-Registration
 - For MSGW connections
 - One OESGW connection for the Session/Firm ID combo is required, and will serve all Market Segments used for that connection
 - Notes
 - In all cases, the OESGW connections must login using the same iLink Session/Firm IDs and password already in use for the order entry connection
 - iLink Sessions are used simultaneously for both Order Management and Pre-Registration Management
 - There is no performance impact to orders on an iLink Session when the same Session ID is used simultaneously for both the Order Connection and the OESGW / Pre-Registration connection

Known Issues

- TT is investigating an issue when orders are sent via automated trading tools immediately after pre-registration occurs, and which may result in the following error: "Child request rejected: Unknown ID (unknown PartyDetailsListReq)"