Cboe Australia

Purge-Amend Port

Cboe®

Purge-Amend Port

1. Background and Purpose

The ability to cancel and amend orders across a participant meets the requirements of participants who manage orders between different trading applications.

Cboe Australia FIX Purge Port is therefore being expanded to also facilitate amendment of orders entered by a participant through another order entry port and/or trading application.

This functionality scope aligns with the previous Chi-X system 'COG – Cross Order Gateway' interface.

2. Overview of the Purge-Amend Port

The Purge-Amend Port is a functionality expansion of the existing Purge Port which provides participants with:

- **Existing ability to Purge orders across a participant's own firm** regardless of which application entered the order.
  Participants may purge single orders or mass orders with various granularity options as shown in the **Purge Request section** in the FIX or BOE specifications:

  - Single order

  - Per Symbol

  - Per Matching Unit

  - Per user-defined Risk Group

  - Whole Trading Participant

  - All Day-only orders or all Multi-day orders only

- **Additional ability to Amend orders across a participant's own firm** regardless of which application entered the order as noted in the **'Purge-Amend Port' sections** of the FIX specification.

All legacy FIX Purge Ports automatically become FIX Purge-Amend Ports from launch.

Purge-Amend Port

3. Sample Message Sequence References

The illustration covers colour-coded sequence scenarios for entering and amending orders, including the use of the Purge-Amend Port to amend orders entered by another order entry port.
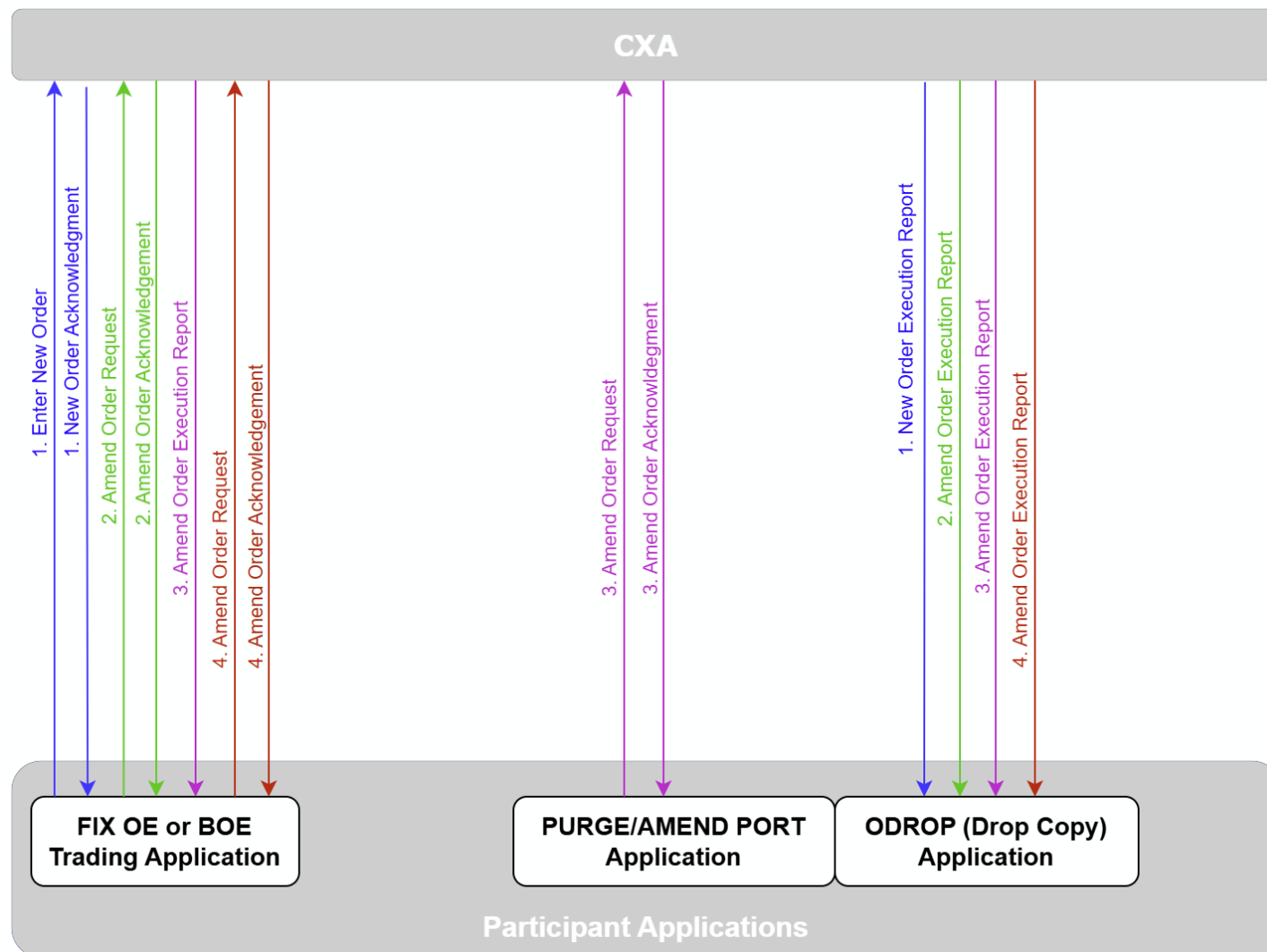
In these scenarios the Purge-Amend Port may access the participant's ODROP application to handle acknowledgment updates.

Existing Scenario 1: New order is entered by the trading application.
The client's ODROP (drop copy) application listens to all order and trade updates.

Existing Scenario 2: Amend order is performed by the trading application.
The client's ODROP (drop copy), listens to all order and trade updates.

New Scenario 3: Amend order is performed by the **Purge-Amend Port.**
Note the trading application which originally entered the order also receives an update that its order has been amended.

Existing Scenario 4: A further **Amend order** is performed by the trading application demonstrating that both the Purge-Amend Port and the trading application can perform ongoing amends in any sequence.

CXA

1. Enter New Order
1. New Order Acknowledgment
2. Amend Order Request
2. Amend Order Acknowledgement
3. Amend Order Execution Report
4. Amend Order Request
4. Amend Order Acknowledgement

3. Amend Order Request
3. Amend Order Acknowldegment

1. New Order Execution Report
2. Amend Order Execution Report
3. Amend Order Execution Report
4. Amend Order Execution Report

FIX OE or BOE Trading Application

PURGE/AMEND PORT Application

ODROP (Drop Copy) Application

Participant Applications

3.1 FIX Trading Application Tag Population – Reference Table

Event Description	Port ID	Direction	Msg Type	Exec Type	Client Order ID	Orig Client Order ID	CXA Order ID
Scenario 1 – Enter order							
FIX order entry port **enters an order**	FIX OE	Client to CXA	35=D (New Order)	n/a	11=F001	n/a	n/a
FIX order entry port receives an ack and Execution Report	FIX OE	CXA to Client	35=8 (Execution Report)	150=0 (New)	11=F001	n/a	37=M01
The client's ODROP application receives the Execution Report of the order entry	ODROP	CXA to Client	35=8 (Execution Report)	150=0 (New)	11=F001	n/a	37=M01
Scenario 2 – Amend order							
FIX order entry port which originally entered the order, performs an **amend**	FIX OE	Client to CXA	35=G (Replace)	n/a	11=F002	41=F001	37=M01
FIX order entry port receives an ack and Execution Report	FIX OE	CXA to Client	35=8 (Execution Report)	150=5 (Replaced)	11=F002	41=F001	37=M01
The client's ODROP application receives the Execution Report of the order amend	ODROP	CXA to Client	35=8 (Execution Report)	150=D (Restated)	11=F002	41=F001	37=M01
Scenario 3 – Amend order via the Purge-Amend Port							
The client's application with a Purge/Amend port performs an Amend Order Request.	**Purge/ Amend Port**	Client to CXA	35=G (Replace)	n/a	11=A001	41=0000	37=M01
Purge/Amend port receives an acknowledgement of the order amend	**Purge/ Amend Port**	from CXA	35=8 (Execution Report)	150=5 (Replaced)	11=A001	n/a	37=M01

Event Description	Port ID	Direction	Msg Type	Exec Type	Client Order ID	Orig Client Order ID	CXA Order ID
FIX order entry port that originally entered the order then receives an Execution Report of the amend.	FIX OE	from CXA	35=8 (Execution Report)	150=D (Restated)	11=F002	41=F001	37=M01
The client's ODROP application receives the Execution Report of the order amend	ODROP	from CXA	35=8 (Execution Report)	150=D (Restated)	11=F002	41=F001	37=M01

Scenario 4 – Amend order

Event Description	Port ID	Direction	Msg Type	Exec Type	Client Order ID	Orig Client Order ID	CXA Order ID
FIX order entry port which originally entered the order, performs an amend	FIX OE	Client to CXA	35=G (Replace)	n/a	11=F003	41=F001	37=M01
FIX order entry port receives an ack and Execution Report	FIX OE	CXA to Client	35=8 (Execution Report)	150=5 (Replaced)	11=F003	41=F001	37=M01
The client's ODROP application receives the Execution Report of the order amend	ODROP	CXA to Client	35=8 (Execution Report)	150=D (Restated)	11=F003	41=F001	37=M01

3.2 BOE Trading Application Field Population – Reference Table

Event Description	Port ID	Direction	Msg Type	Exec Type	Client Order ID	Orig Client Order ID	CXA Order ID
Scenario 1 – Enter order							
BOE port **enters an order**	BOE	Client to CXA	3005 New Order		F001	n/a	n/a
BOE port receives an acknowledgement	BOE	CXA to Client	3501 Order Acknowledgement		F001	n/a	M01
The client's ODROP application receives the Execution Report of the order entry	ODROP	CXA to Client	35=8 (Execution Report)	150=0 (New)	11=F001	n/a	37=M01

Scenario 2 – Amend order

BOE port which originally entered the order, performs an **amend**	BOE	Client to CXA	3006 Modify Order		F002	F001	M01
BOE port receives an acknowledgement	BOE	CXA to Client	3513 Order Modified		F002	F001	M01
The client's ODROP application receives the Execution Report of the order amend	ODROP	CXA to Client	35=8 (Execution Report)	150=D (Restated)	11=F002	41=F001	37=M01

Scenario 3 - Amend order via the Purge-Amend Port

The client's application with a Purge/Amend port performs an Amend Order Request.	**Purge/ Amend Port**	Client to CXA	35=G (Replace)	n/a	11=A001	41=0000	37=M01
Purge/Amend port receives an acknowledgement of the order amend	**Purge/ Amend Port**	from CXA	35=8 (Execution Report)	150=5 (Replaced)	11=A001	n/a	37=M01
BOE port receives an Execution Report of the amend because it is the original enterer.	BOE	from CXA	3505 Order Restated		F002	F001	M01
The client's ODROP application receives the Execution Report of the order amend	ODROP	from CXA	35=8 (Execution Report)	150=D (Restated)	11=F002	41=F001	37=M01

Scenario 4 – Amend order

BOE port which originally entered the order, performs an amend	BOE	Client to CXA	3006 Modify Order		F003	F001	M01
BOE port receives an acknowledgement	BOE	CXA to Client	3513 Order Modified		F003	F001	M01
The client's ODROP application receives the Execution Report of the order amend	ODROP	CXA to Client	35=8 (Execution Report)	150=D (Restated)	11=F003	41=F001	37=M01

Please refer to the **'Purge-Amend Port' sections** in the **FIX specification** and contact tradedeskau@cboe.com with queries.

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