



TMX AUSTRALIA EXCHANGE

CXA Web Portal Specification

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Contents

Introduction	4
Overview & Access	4
Portal Account Privileges	4
Account Creation and Updating Privileges	4
New Account Creation	4
Updating Account Privileges	5
Account	6
General Information	6
My Account	6
Member Tools	7
Account Home	7
Conformance Certification Tool	7
Latency Stats	7
Logical Port Request	8
Requesting a new session	8
Modifying a logical port	9
Deleting a logical port	9
Ports Display	9
Filters and port information	9
Physical Connection Request	10
Physical Ports	10
Multicast Subscriptions	11
Market Data Applications	11
Data Product Declaration	11
Short Sale Submission Facility	11
Exchange Tools	11
Order Lookup	11
Trade Data	12
Trade Data/Trade Detail File Format	12
Market Maker Registration	13
Market Maker Performance Reports	13
Invoices and Files	13



Trade Cancellation Request	14
Stats and Ranking	14
BIDS Restricted Stock List	14
Participant Files	14
Issuer Tools	14
Issuer Announcements	14
Issuer Unit Reporting	14
Contact us for more information	16



Introduction

Overview & Access

The Customer Web Portal offers participants a wide variety of tools to manage their settings, access data, and submit changes. Participants are expected to use the portal to order physical (e.g., cross connects) and logical (e.g., BOE and FIX order entry) ports, retrieve invoices, create and maintain Market Maker registrations, retrieve daily trade data and monthly trade detail reports, and submit order entry certification scripts. The Portal also offers order lookup capabilities, port dashboards, latency statistics, and trade reporting.

General CXA Web Portal link: <https://www.cboe.com/account/login/>

Please ensure you select Australia Customer Portal from the dropdown.

Direct Australia portal link: <https://www.tmxaustralia.com/account/login> or <https://accountau.cboe.com/account/login/>

Portal Account Privileges

Below is a list of available privileges for a portal account. Some tools listed below in the 'Member Tools' section are granted to all users and do not have an associated privilege below.

- [Conformance Certification Tool](#)
- [Latency Dashboard](#)
- [Logical Port Request](#)
- [Ports](#)
- [Physical Connection Request](#)
- [Physical Ports Display](#)
- [Multicast Subscriptions](#)
- [Market Data Admin](#)
- [Short Sale Submission Facility](#)
- [Account Admin](#)
- [Order Lookup](#)
- [Trade Data](#)
- [Market Maker](#)
- [Billing Files](#)
- [Email Invoice](#)
- [Trade Cancellation Request](#)
- [Stats/Ranking](#)
- [BIDS Restricted Stock List](#)
- [Participant Files](#)
- [Issuer Tools](#)

Account Creation and Updating Privileges

New Account Creation

Designated account admins are responsible for managing their firm's portal accounts. Account Admins are initially designated by membership/registration upon setup. Subsequent admins can be entitled by an existing Admin within the firm. In the event a firm does not have an active/valid Account Admin, it may work with Membership Services (membership@cboe.com) to have a new Account Admin(s) established.

If needed, the AU Trade Desk (tradedeskau@cboe.com) can help determine a firm's Account Admins.



Account Admins can use the *User Management* tool to create, edit, or disable portal accounts for users at their firm. Each portal account defaults to showing all data related to the user's firm within the granted privilege list. Please contact the AU Trade Desk to update data restrictions for a given user's account.

Updating Account Privileges

From time to time, privileges may be added or removed from a portal account, or an individual account may need to be disabled. Account Admins can use the *User Management* tool to make any necessary updates to a user's portal account.

User Management

[Download Report](#)[HELP](#)

Manage the privileges and roles for all the users in your company.

Manage Users

Manage Access Roles

+ Add User

☐ Premium Tool Users

Search

Name, phone and email	Premium Tools	Login, roles	Creation Date Last Login Date	Actions
TestAdmin 1 @cboe.com			2021-10-27	

Managing Roles for Users

In addition to configuring individual users, Account Admins can establish Roles within the *User Management* tool. A Role is a set of pre-defined privileges which can be applied to a group of users within a firm. The Roles functionality assists Admins in quickly entitling users without the need to manually select each privilege for a new account. A user may have either a defined role or a custom list of selected privileges, but not both.

Access Management

Manage the privileges and roles for all the users in your company.

Manage Users

Manage Access Roles

+ Add Role

Search

Role Name	Users	Role Description	Actions
Sales	2 Users	Common Role for all sales associates	
Compliance	No Users	Common Role for all Compliance associates	
Trade Desk	No Users	Common Role for all Trade Desk Associates	



Account

General Information

The Account box on the left-hand side the home page contains the name of the user, the firm with which the user is associated, the previous login date, and a list of the user's admin(s).



ACCOUNT

Cboe Trading, Inc. (Z)

Previous Login: 2022-01-09 14:05

My Account

Account Home

Logout

Contact Your Account Admin:

-- select an option --

This information can be helpful as some users have multiple login ids associated with different participants within the CXA system.

My Account

My Account will show a new page containing information about the user and their account, including their username, first name, last name, and email address.

There is also a link at the top of the page where users can change their password.



Member Tools

Account Home

At any time, click on the Account Home link to go back to the home page of the Portal.

Conformance Certification Tool

The Conformance Certification Tool is available to users who wish to complete one of the CXA requisite certifications. All certification scripts are available within the drop-down list. Follow the instructions as written and provide the values requested within the blank form. Once finished, click "Submit". The AU Trade Desk will review your submission and may reach out for additional testing. To check the status of a pending certification, click the "view your submissions" link.

Conformance Certification

Choose a certification form to submit below, or [view your submissions](#)

Certification Script:

Order Entry Certification Script

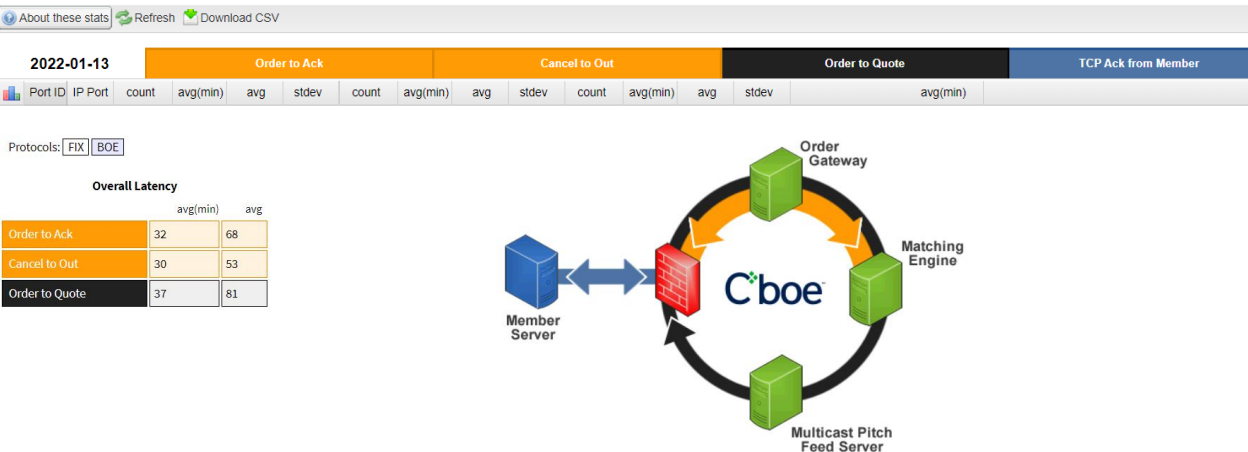
Certification:
Member Firm ID:
Firm Contact:
Contact Phone Number:
Contact Email Address:
Date of Testing:
Session SenderSubId:
Additional Notes:

Order Entry Conformance Test
4-letter Firm ID
Your Name
Your Phone Number
Your Email Address
4-digit SenderSubId

Upon successful completion or rejection of the script, click on any of the scripts to view notes added by AU Trade Desk personnel.

Latency Stats

The Latency Stats tool shows a summary of latency statistics for FIX or BOE order entry ports. The latency is categorised into four sections: Order to Ack, Cancel to Out, Order to Quote, and TCP Ack from Member.





Click “About these stats” to get more information on each of the available statistics, or click on the graph next to each session to view latency information for each session on an individual basis.

Logical Port Request

The Logical Port Tool allows users to submit requests for new ports, modify existing ports, or delete existing ports on the CXA platform. Logical ports include order entry ports, drop ports, and market data ports.

Logical Port Request

Add	Modify	Delete	
-----	--------	--------	--

The *My Contact Information* is populated with the current user’s contact information when the page is first loaded. Additionally, a billing and technical contact (may be same as requestor) must be populated for documentation purposes.

Requesting a new session

To submit a request to add a new session, specify both the trading platform and whether the new session is for the Production or Certification environment.

Session Information

Platform	
Bill To PID	Firm
Environment	☐ Production ☒ Certification

The final section asks the user to select the type of requested port. Only ports which are supported on a platform will be available in the drop down.

☐ Order Entry Port

Number Of Ports	
Protocol	FIX
Additional Notes	Please add any information about port attributes here. If you would like to mimic an existing port, you can note that here as well.

☐ Drop Port

Number Of Ports	
Protocol	FIX DROP
Additional Notes	Please include details regarding what Port and/or MPID information should be dropped to each port.

☐ Market Data Port

Number Of Ports	
Protocol	Gap Request Port (GRP) - Gig
Additional Notes	Please include details regarding specific needs for this port.



At the bottom of the request form, users may add additional notes to the request. Notes should include any specific instructions (e.g., to clone the port attributes of an existing port or to enable a specific port attribute).

Once submitted, the request is handled by the AU Trade Desk. The AU Trade Desk will reply via email with the connection details for the new session(s). Newly created sessions are always available for the next trading day.

Please Notify	If you would like Cboe to notify third-parties of the outcome of this request, please include their email address here. example@example.com
Additional Notes	New ports will be created with default settings unless instructed otherwise. Include any specific instructions here.

Submit

* Denotes Required Field

Modifying a logical port

By default, all modifications are effective for the next day. If requested, some modifications can be made effective immediately. The AU Trade Desk will notify the user if any of the requested modifications cannot be made effective same day.

Any number of the listed sessions can be selected to be modified in the request. The desired modifications should be stated in the *Additional Notes* section.

Once submitted, the AU Trade Desk will respond with confirmation of the modifications.

Deleting a logical port

To submit a deletion request, fill out the contact information and select the port(s) to be deleted. Users can then choose to provide additional email addresses to notify upon completion of the request as well as any additional notes.

The optional “Decommission Date (After close of business)” field allows logical port deletions to be schedulable up to two weeks in advance. If a decommission date is not specified, the logical port deletion will be effective for the current trading day after the close of business. On screen confirmation will be provided upon submission of a deletion request, and confirmation will also be provided by email after the request has been reviewed.

Ports Display

The Ports Dashboard shows information regarding a participant’s logical ports. The dashboard displays the number of open orders, the number of rejects, and the total number of orders received. In addition, the last date of port connection will be shown.

Filters and port information

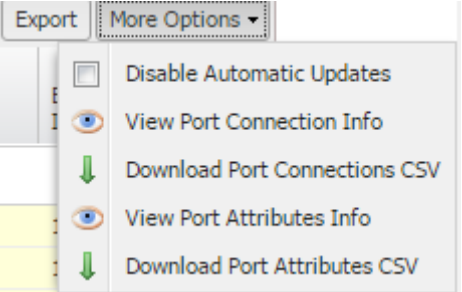
Id	IP port	State	Open Orders (Current)	Orders (Total)	Rejects (Total)	TCP Retrans (Total)	TCP Retrans (per MB)	Requests Pending (Avg)	IP Address
Filter All States All Types Statistics Period Last 5 minute									

Results can be filtered by port type (e.g., fix) and by state (e.g., active). The Active State filter displays only currently connected ports. The Inactive State filter displays only currently disconnected ports. Users can



also filter information by time period. The filter can be set to 5 min, 10 min, 15 min, 30 min, 1 hour, 2 hours, or all day.

Users can view or download port connection information and all order entry port attributes from the tool.



The Port Connection option shows connection details for the participant’s sessions, including the IP address, CompID, and SubID. This information can be viewed in a pop-up window or downloaded in csv format.

The Port Attributes option shows current port attributes for each order entry session. More information on the settings can be found in the [CXA FIX specification](#). The attributes can be viewed in a pop-up window or downloaded in csv format.

Physical Connection Request

Like the Logical Port Request form, the Physical Connection Request allows users to request a physical connection to the CXA Platform. The first section is pre-populated with the user’s information. Once the request is submitted, the CXA APAC NOC will confirm via email. Any physical connectivity inquiries should be directed to the CXA NOC team at nocapac@cboe.com.

Physical Connection Request

AddDelete

My Contact Information

Name *
Email *
Phone *

Billing Contact Information

☐ Same as My Contact Information above.

Name *
Title *
Email *
Phone *
Bill To Member ID (if known)

Technical Contact Information

☐ Same as My Contact Information above.

Name *
Title *
Email *
Phone *

Connection Information

Source (A-Side) Data Center/Cage Number *
Dest. (Z-Side) Data Center * Sydney SY2 - Sydney, NSW
Number Of Connections *
Markets * ☐ CXA
Port Type * 10G
Fiber Type * SMF
Connector Type *
Desired Turn Up Date 2022-09-03
Public AS Number
BGP Advertised Networks
Cboe Peer IP Address
Customer Peer IP Address
Additional Notes

Submit

Physical Ports

The physical ports tool displays all physical connections to CXA.



Physical Ports for [REDACTED]

Double click a row to see multicast subscription information for that connection.

FIRM ID...	CO...	CONNEC...	DC ▾	IP ADDRE...	TX...	RX...	BILL TO...	MAINTEN...	MAINTEN...
[REDACTED]	1G	219 [REDACTED]	T2	10.193.[REDACTED]	[REDACTED]	-7.99	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	1G	219 [REDACTED]	T2	10.193.[REDACTED]	[REDACTED]	-8.06	[REDACTED]	[REDACTED]	[REDACTED]

The connection ID is the cable ID for the connection that the data centre provides once the initial cabling is complete. The data centre refers to the data centre where the connection resides. Our primary data centre is SY5. Our disaster recovery data centre is Global Switch, Pyrmont. The interface IP address is the address on the interface device. The billing start and end dates denote the billing period for a physical connection.

Double click a connection to display the market data subscriptions that flow over it.

See [CXA Connectivity Manual](#) for more information on Physical Connectivity.

Multicast Subscriptions

Multicast Subscriptions for CTST

FIRM ID ▾	CONNECTION ID ▾	FEED ID ▾	FEED ▾	SPECIFICATION ▾
-----------	-----------------	-----------	--------	-----------------

The multicast subscriptions tool shows a list of multicast market data feeds and the physical connection on which that subscription flows.

The feed matches the feed name in the appropriate market data technical specification. The connection ID is the cable ID provided by the data centre. The user may sort by feed or connection ID column headers.

Market Data Applications

Market data admins at existing CXA participants can complete an application requesting new market data feeds/services here.

Data Product Declaration

Users with the Market Data Admin privilege can use the Data Product Declaration tool to report required usage and distribution information for CXA Market Data.

Short Sale Submission Facility

This facility allows Participants to report short sale positions from the previous business day for products uniquely quoted on CXA. Note that participants lodging short sale reports with CXA must satisfy themselves that the information they are providing fulfills their short sale obligations under the Corporations Act 2001 (Cth).

Exchange Tools

Order Lookup

The Order Lookup tool allows users to find orders(s) by date and time. The search can be broad or narrow and will return all accepted orders matching the search criteria. At least three fields must be populated, and it is highly recommended to use a time range of <15 minutes to return the query quickly.



Once the search is complete, the results will be displayed on the Job Queue page. Click 'View' to display the results of your search.

Trade Data

The Trade Data tool provides a list of executions by PID in a csv formatted file. This data can be pulled by a customer for the previous 28 business days and can also be provided for an extended date range upon request to the AU Trade Desk. The files provide near real-time trade information.

By default, a user will see all data for that user's firm (all Trading PIDS). Contact the AU Trade Desk to restrict visibility.

Trade Data/Trade Detail File Format

The Daily Trade Data and Monthly Trade Detail files are described below. Fields not applicable for a specific trade will be blank.

Column Position	Column Header	Sample Value	Description
1	Trade Date	20210503	Calendar day of the trade.
2	Trade Time	09:30:04	Matching Engine time (AET) of the trade
3	Sending Firm	ABCD	4 alpha character firm ID of the port owner.
4	Session Id	0001	4 digit sub ID of the port.
5	Client Order Id	A23456789	Client Order Id provided by the firm.
6	Order Id	W5FYFLTRXG DC	Order Id assigned by Exchange.
7	Execution Id	0W9W00002	Execution ID assigned by Exchange.
8	Trading PID	1234	Identifies the 4 digit Trading PID that initiated the trade.
9	Clearing PID	33221	Identifies the 5 digit Clearing PID
10	Symbol	BHP	Exchange generated Symbol.
11	Side	Buy	The side of the trade.
12	Price	19.63	Execution Price.
13	Quantity	50	Number of shares traded.
14	Total Consideration	981.50	Price x Quantity. Total value traded.
15	Order Capacity	A	The capacity of the order. A full list of capacity values can be found in the CXA FIX Specification by referencing FIX Tag 47.
16	Liquidity	R	The liquidity of the execution. A full list of liquidity values can be found in the CXA FIX Specification by referencing FIX Tag 9730.
17	Subliquidity	m	The subliquidity of the execution. A full list of subliquidity values can be found in the CXA FIX Specification by referencing FIX Tag 9730.
18	Fee Code	X	Fee Code for the execution mapped to Fee Schedule.
19	Base Rate	.0010	The base rate charge or rebate for the transaction.
20	Access Fee	.05	Base Rate x Size.
21	Trade Report Type	B	Off Exchange Trade Report Type. A full list of values can be found in the CXA FIX Specification by referencing FIX tag 8181. Blank if not applicable.



Column Position	Column Header	Sample Value	Description
22	Trade Report Execution Venue	ABCD	Execution Venue to identify participant crossing system or dark pool of trade report. See FIX tag 4805 CXA FIX Specification for more details. Blank if not applicable.
23	Contra Firm	9876	The 4 digit Trading PID of the counter party on the trade for attributed symbols only.
24	Invoiced To	1234	PID that is billed for the transaction fees.

Market Maker Registration

The Market Maker tool provides participants the ability to upload a csv formatted symbol list. This must be completed by 9:30 a.m. AET, or the changes will be effective for the following trading day.

Participants may register in CXA listed products via the tool. However, should they wish to deregister, they must contact the AU Trade Desk (tradedeskau@cboe.com).

Market Maker Performance Reports

Downloadable market maker performance reports are available for participants to track core metrics in relation to program requirements.

This app can be used to view and manage current and future market maker appointments.

Trading PID (+ Optional Account)

Select...

Current Trading Session's Symbol List

[View](#)

[Download](#) 

Next Trading Session's Symbol List

[View](#)

[Download](#) 

[Clear Symbol List](#)

Choose a file from your computer to upload

SYMBOL LIST FILE

Choose a file or drag and drop

[Upload](#)

File Upload Content Sample

symbol,ADDED

symbol,ADDED

symbol,REMOVED

Invoices and Files

To view invoices and the corresponding monthly trade detail files, the user must have access to both the 'Billing Files' and 'Invoices' privileges. Monthly trade detail files retain the same format as the Daily trade data files.

The "Email Invoice" privilege can be enabled for a user to ensure each monthly invoice is sent via email once generated.



Trade Cancellation Request

The Trade Cancellation Request form is used to request a voluntary adjustment or cancellation of a trade. The form is also available via the public website. A history of all submissions via the Web Portal are available within the tool.

Stats and Ranking

The Stats and Ranking tool allows Participants to see volume statistics and overall ranking of their firm for a given day on the CXA platform.

BIDS Restricted Stock List

CXA BIDS customers can upload a RSL (Restricted Stock List) for each of their PIDs here. The RSL only impacts the member's trading on the BIDS platform.

Participant Files

The Market Share Report and Broker Trade Report files are available to Participants and vendors only. As a result, only users with a CXA Web Portal account associated with a known Participant or Vendor will be provided with the ability to download these files. Automation of these downloads using WGET (or similar software) is easily accommodated within the CXA Customer Web Portal. A sample WGET command to retrieve a Market Share Report is included below.

```
wget --tries=1 --http-user=myusername --http-password=mypassword --auth-no-challenge -O  
your_filename.csv "https://URL_TBD"
```

Issuer Announcements are submitted by issuers and posted to the CXA Customer Web Portal as well as to the CXA Public Website. A file containing URLs for every document currently available will be provided for client automation.

See [Guide to Reference Data Files](#) for more information on Participant Reports.

Issuer Tools

Issuer Announcements

Quoted fund product issuers must submit each disclosure document required under the Operating Rules, etc. to the Issuer Announcements tool in accordance with the instructions specified on the tool. CXA will then publish the document to the Issuer Announcements [webpage](#).

If the Issuer Announcements tool is unavailable, the product issuer must email each disclosure document as a single PDF file to au.announcements@cboe.com. The subject of the email will be published as the title of the disclosure announcement.

Warrant product issuers must email each disclosure document required under the Operating Rules, etc. as a single PDF file to au.announcements@cboe.com. CXA will then publish the document to the Issuer Announcements [webpage](#). The subject of the email will be published as the title of the disclosure announcement.

Issuer Unit Reporting

Quoted fund product issuers with a direct OTC creation/redemption model (dual access) must report the quantities of the quoted units (on exchange) and unquoted units (off exchange) on the Issuer Unit Reporting tool in accordance with the instructions specified on the Tool.

If the tool is unavailable, the product issuer must email the quantities to tradedeskau@cboe.com.



Revision History

Document Version	Date	Description
1.0.0	22/04/22	Initial version.
1.0.1	31/08/22	Removed Trade Reporting as it will only be allowed via FIX. Added Short Sale Submission Facility (4.11). Added future dated logical port deletion functionality. Clarification of roles vs. privileges. Trade data removal of Exchange Code: CXA and Contra OrderID along with minor description change of contra fields. Historical data products removed and moved to CXA Datashop. Added Market data applications tool. Added portal access URL. Added Participant Files section. Added Issuer Tools for Warrants Interface and Units Reporting. Added Market Maker Reports.
1.0.2	10/11/23	Added new Issuer Tools sections 6.1 and 6.2.
1.0.3	19/04/24	Renamed "Invoices and Files" and "Billing" privileges to "Billing Files" and "Invoices", respectively.
1.0.4	11/02/25	Updated with CXA Titanium branding.
1.0.5	03/08/26	Rebrand



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