



ASX CHESS Project

Release 1 Build and Test Forum

10 April 2025



Acknowledging Country

ASX acknowledges the
Traditional Owners of Country
throughout Australia.
We pay our respects to Elders
past and present.

Artwork by Lee Ann Hall, My country My People

Housekeeping

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- > Presentation materials were distributed before the meeting and will be published on the website.

Important Information

Competition Law Reminder

Workshop members are reminded to have regard to their obligations under competition law. In particular, please note that the Competition and Consumer Act prohibits a corporation from engaging with one or more persons in a concerted practice that has the purpose, effect or likely effect of substantially lessening competition.

Agenda

01 Welcome, Open Actions and Feedback

02 ITE Activity Update

03 Upcoming Documentation & Changes

04 Alternate FIX Ingestion Interface

05 AMO Operational Readiness

06 Cutover and Transition Readiness Overview

07 Forward Engagement for 2025

01

Welcome, Open Actions and Feedback

01 – Open Actions

No open actions as at 3 April 2025

#	Topic	Action	Raised	Due	Owner	Status
-	-	-	-	-	-	-

02

ITE Activity Update

02 – ITE Activity in March

AMOs and AMO Software Providers expected to connect to ITE for the AMO Build & Test phase have now completed their connectivity activities and have commenced testing business messages.

ITE Update

- > The ITE environment has remained available and stable for Industry Testing throughout March
- > AMO FIX Gateway logon and testing has commenced – activity on all business messages apart from “Password Change”
- > AMO test activity levels are lower than expected but anticipated to increase in April
- > 1 new issue identified during AMO testing (added to [known issues log](#)):
 - CHR – 15238: FIX (W) Message requires decimal value in MDEntryPx
- > ITE maintenance windows performed by ASX on select Thursday afternoons. No environment outages and minimal impact to AMO testing.

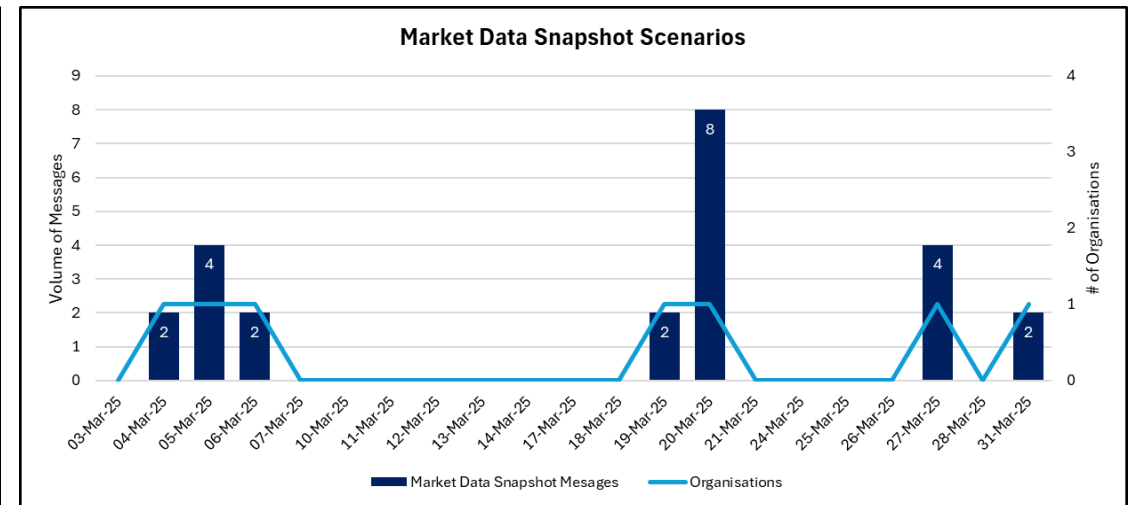
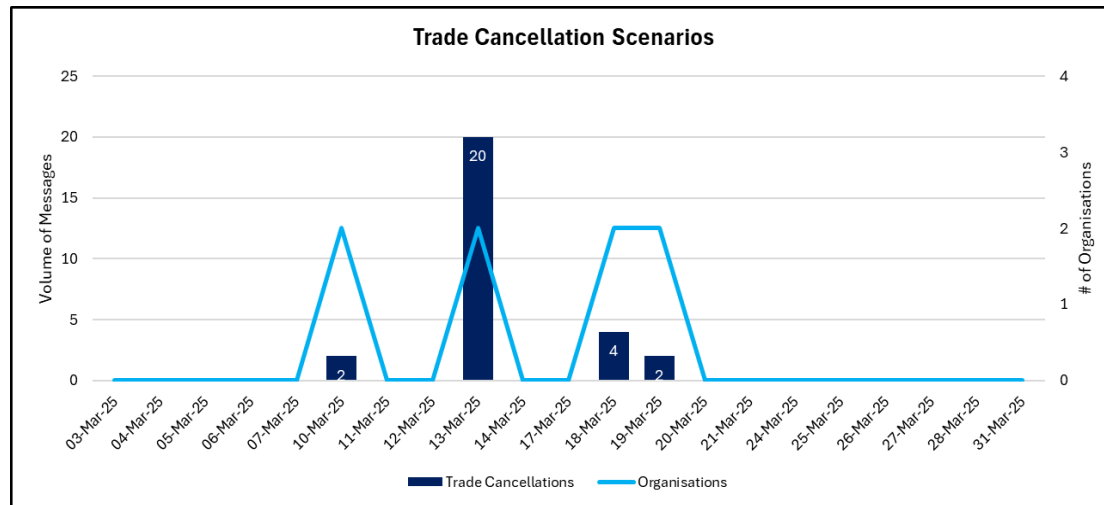
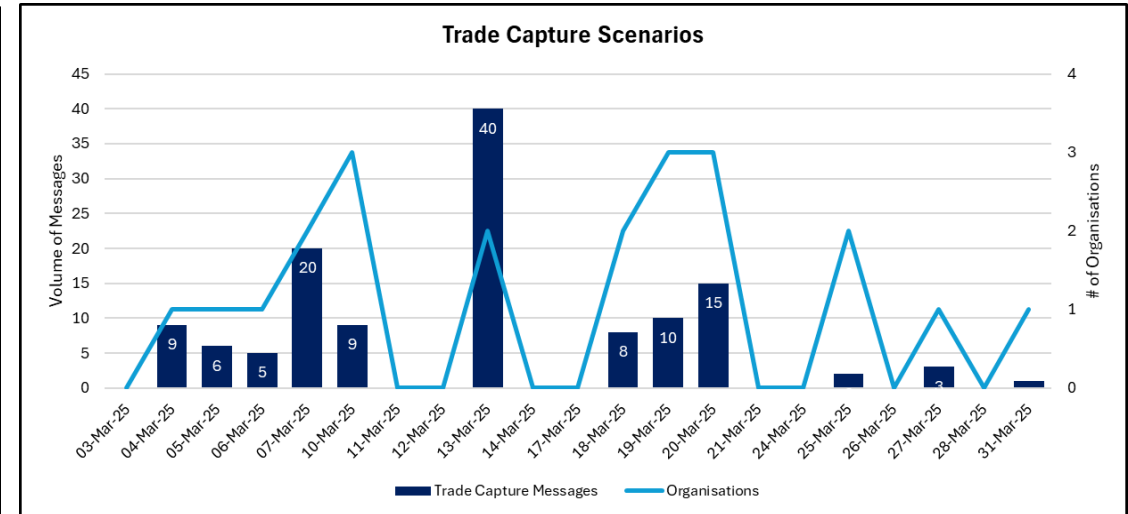
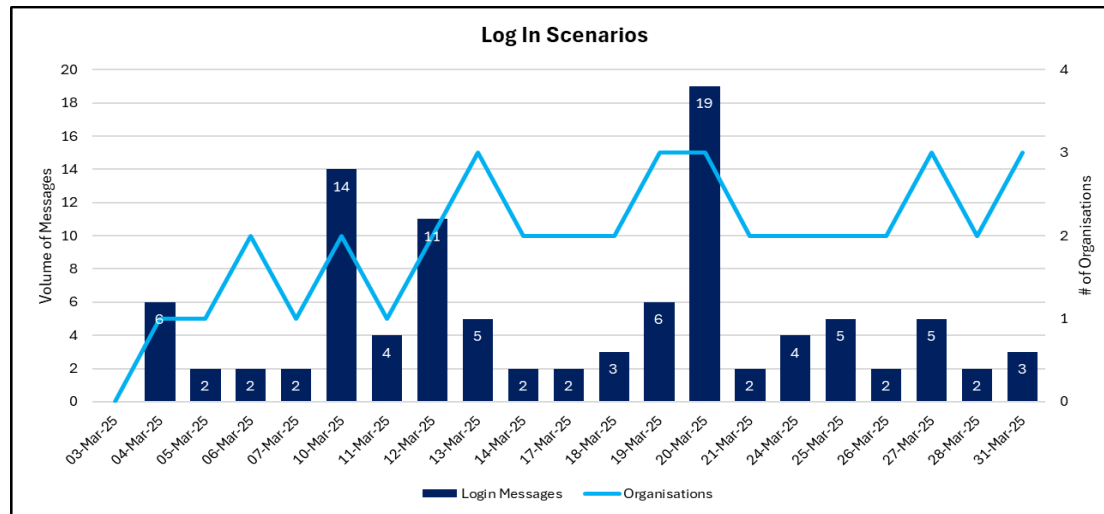
AMO Build & Test	Total
Login	101
Graceful Disconnection	90
Password Changed	0
Resend Request	15
Sequence Reset	16
Trade Capture	86
Trade Capture Cancellation	14
Market Data Snapshot	43
Support Tickets	5

Source: ITE data is from 1 March 2025 to 31 March 2025

02 – New Issues Identified

Ref ID	Summary	Details	AMO Impact	Work around or Mitigation	Status	Target Fix Date
CHR-15238	<p>MarketDataSnapshot (W)</p> <p>FIX (W) Message incorrectly being rejected when MDEntryPx does not contain decimal point with at least one decimal place value.</p>	<p>Expected Behaviour: (W) Message accepted when MDEntryPx contains up to 15 digit value either with a decimal precision up to 6 decimal places or without (i.e. float number)</p> <p>Actual Behaviour: (W) Message rejected when MDEntryPx does not contain up to 15 digit value with a decimal precision of 1 or more up to 6 decimal places</p>	<p>AMOs will receive an unexpected rejection when transmitting (W) messages that contain a float number in MDEntryPx field</p>	<p>AMO software must transmit (W) messages that contain a decimal precision value with one or more decimal place values in MDEntryPx field</p>	In Progress	TBC – Under investigation

02 – ITE message activity since ITE open



Source: ITE data is from 1 March 2025 to 31 March 2025

03

Upcoming Documentation & Changes

03 – FIX Specifications Changes: TradeCaptureReportAck (AR) Messages

Updating of FIX AR Messages (TradeCapture ReportAck)

- As part of the CHES Project the FIX messages were rationalised, which considered removing obsolete and redundant fields. Part of this rationalisation included reviewing the following messages: FIX AE, FIX AR, FIX W and FIX AU
- Based on AMO test feedback it was agreed several fields need to be reintroduced to aid reconciliation against the originating trade
- The AR message includes the following fields in **GREEN** which have been restored since the last specification.

Tag	Field Name	M/O	Type	Notes
1003	TradeID	M	String	
1040	SecondaryTradeID	O	String	
939	TrdRptStatus	M	int	
75	TradeDate	M	LocalMktDate	Added to the FIX AR
64	SettlDate	O	LocalMktDate	
60	TransactTime	M	UTCTimestamp	
55	Symbol	M	String	
31	LastPx	M	Price	Added to the FIX AR
32	LastQty	M	Qty	Added to the FIX AR
751	TradeReportReject Reason	O	int	
1328	RejectText	O	String	
58	Text	O	String	

03 – FIX Specifications Update – ResendRequest (2) Tag 789

Removal of NextExpectedMsgSeqNum (789) field

Background

The FIX protocol allows message synchronisation to occur where there is a gap detected in the inbound and outbound message sequence number across both client and server side. FIX prescribes the following approaches:

- Option 1: ResendRequest(2) Once a gap is detected the FIX session can transmit a ResendRequest(2) request to the Client side (AMO) or Server side (CHES) to resend a single, range or all missing messages to fill any message gap
- Option 2: NextExpectedMsgSeqNum (789) field in Logon <A>. Once an AMO establishes a fix session via Logon <A> which includes the NextExpectedMsgSeqNum (789), if a gap is detected (i.e. the MsgSeqNum is higher or lower than expected), the FIX protocol will automatically retransmit any missing messages.

To operate effectively both ends of a FIX session (AMO and the CHES FIX gateway) must be configured to use the same approach.

Industry Engagement and Go-Forward Approach

- Previous bilateral engagements and discussions within the R1 Build & Test Forums have noted only one option can be utilised as the go-forward approach
- Consensus was to remove NextExpectedMsgSeqNum (789) tag and revert to a ResendRequest being triggered when the session detects a MsgSeqNum gap (Option 1).

Change made

- The NextExpectedMsgSeqNum (789) tag will be removed from the Logon <A> message in an updated version of the AMO User Technical Documentation
- ASX will be implementing this change in the FIX Gateway and the NextExpectedMsgSeqNum (789) tag will no longer be supported
- AMO & CHES to transmit a ResendRequest(2) request automatically when a gap detected.

03 – FIX Specifications Update – Logon (A) Tag 141

Enforcement of ResetSeqNumFlag (141) set to 'Y' on first Logon each day

Background

- > Logon (A) message allows AMO Indicates that both sides of the FIX session should reset sequence numbers
- > CHESSEX FIX Gateway expects first Logon (A) of each business day to have sequence reset to 1
- > Log on issue identified when AMO transmits first Logon (A) of each business day with ResetSeqNumFlag (141) tag set to 'N'.

Change made

- > Additional content added in Description for Field 141 *ResetSeqNumFlag* to confirm requirements on first Logon (A) of each business day & subsequent Logons:
 - "At the commencement of every business day, the first Logon (A) message must have a ResetSeqNumFlag (141) set to 'Y', with each proceeding ResetSeqNumFlag (141) set to 'N'".

03 – Connectivity Guide Update

Clarification of accepted TLS versions accepted by FIX Gateway

- > The Connectivity Guide does not detail specific versions of Transport Layer Security (TLS) but references v1.2 within the example commands
- > The current TLS versions supported are v1.2 and v1.3.

03 – Accreditation Guide Overview

The AMO Accreditation Guide was distributed on 31 March 2025 to AMOs and their Software Providers. In total, there were 27 scenarios published and below is a recap of the Accreditation Phase.

AMO Accreditation Phase Key Takeaways

- > Prerequisites – Requires AMOs / Software Providers to have completed all R1 Build & Test and AMO readiness activities resulting in production ready AMO software
- > Planned timing – Runs from September to early November 2025
- > Required for – Production connectivity to CHES and dependency for AMOs to commence CHES project AMO Operational Readiness activities (also scheduled between September and November 2025)

Process

- > AMOs or their Software Provider to schedule Accreditation Assessment with CHES Project Customer Technical Support (CTS) team
- > Combination of mandatory and conditional (based on AMO software technical configuration) scenarios
- > Several scenarios require ASX assistance to facilitate – CHES project CTS team will coordinate when these activities will occur
- > Failure of any scenario by AMO software will require rectification and restart of accreditation process



ASX welcomes any feedback or further questions relating to the AMO Accreditation Guide

04

Alternate FIX Ingestion Interface

04 – Alternate File Ingestion Interface – Security Requirements

- > ASX is planning to provide Alternate File Ingestion for AMOs to submit data using SFTP during BCP events
- > Aligning with RBA FSS security requirements:
 - Alternate File Ingestion needs to support confidentiality, integrity and authenticity to ensure non-repudiation
 - SFTP is internet facing – AMO data is confidential and needs to be protected
 - To align with FSS requirements all Alternate File Ingestion SFTP files are to be password protected prior to transmission
 - ASX will generate Passphrase for each AMO and communicate via secure method
 - The Passphrase will be used bi-directionally:
 - AMOs will use it when compressing the files (zip) prior to sending, with ASX to decompress upon consumption
 - Response files will be compressed by ASX using the same Passphrase, with the AMO to decompress upon consumption
 - Examples include:
 - `zip mytrades.zip *.dat -e -P "<my-pass-phrase>`
 - `unzip -P "<my-pass-phrase>" fixtrades.zip`

05

AMO Operational Readiness

05 – AMO Operational Readiness Overview

AMO Operational Readiness Phase planned between September & Early November 2025

Purpose

- > Confirm that the AMO operational business-as-usual teams within AMOs:
- > Are fully prepared for the transition to the new CHES Clearing Service at go-live.
- > Can successfully operate their Business as Usual (BAU) functions using their new CHES Clearing Service accredited software and associated processes

Difference to AMO Accreditation

- > AMO accreditation is for the technical teams building AMO software to verify that the software conforms to the requirements and specifications outlined in the AMO User Technical Documentation
- > AMO Operational Readiness confirms AMO operational teams can operate the accredited software and have the processes in place to manage the new CHES Clearing Service requirements effectively and safely

Process

- > AMO operational teams to familiarise themselves with accredited software, develop processes & procedures to operate business as usual
- > AMO to book in Operational Readiness assessment with ASX – providing transaction references for AMO readiness scenarios and completing AMO readiness checklist
- > ASX to review transactions and checklist confirmation – optional contact with AMO operational team if required
- > ASX to confirm Pass/Fail outcome of transaction and checklist review

Scenarios

- > Scenarios still being finalised and subject to change. Currently in draft with:
- > 10 Trade Capture
- > 32 Pending Trade
- > 2 Market Data snapshot
- > 1 conditional Security Definition
- > 10 Alternate File Ingestion Interface
- > Numerous process and procedural checklist items.

Entry Criteria

Completion of AMO Accreditation, Installation of Accredited AMO software for AMO operational team use, development of processes and procedures, successfully tested all operational readiness scenarios.

Exit Criteria

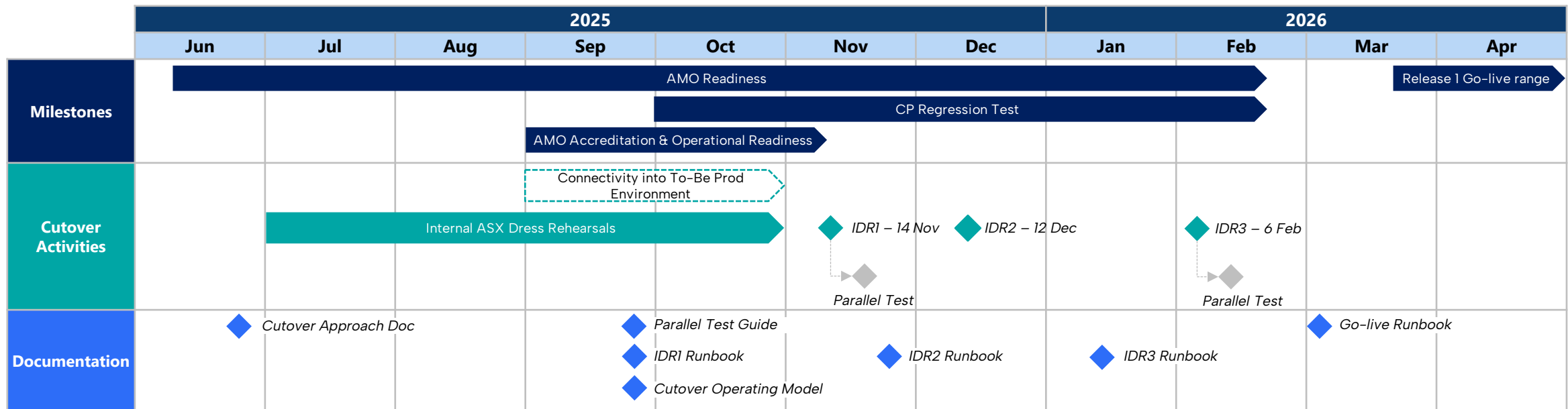
Demonstrated all Operational Readiness scenarios have passed the success criteria and obtained ASX confirmation of assessment pass.

06

Cutover and Transition Readiness Overview

06 – Cutover and Transition Readiness Overview and Timeline

The Cutover and Transition phase for Release 1 is designed to ensure a smooth and controlled migration to the new CHES Clearing Service. Cutover Readiness activities include verifying the migration of essential reference data needed for trade acceptance and clearing services, conducting Implementation Dress Rehearsals (IDRs) and performing an AMO Parallel Test in the To-Be-Prod environment.



Note: IDR dates are indicative and subject to change based on working group feedback

06 – Cutover and Transition Readiness Key Principles to Consider



AMO Readiness Confirmation

AMOs are required to submit readiness attestations to ASX, following completion of software accreditation, operational readiness, participation in IDRs.



AMO Parallel Test

Ensures the accuracy and consistency of production trade registration feeds between the current CHES system and the new CHES Clearing Service.



Thorough Preparation and Validation
Prior to the Implementation Dress Rehearsals (IDRs), ASX and AMOs are required to internally rehearse their cutover activities.



Implementation Dress Rehearsals

Implementation Dress Rehearsals are mandatory events for AMOs, taking place in the To-Be-Prod environment.



Minimised Business Disruption

The cutover window and rehearsal events are scheduled over a weekend, leveraging downtime to reduce operational impacts and to complete the full scope of internal and external activities.



Controlled Risk Management

A structured approach with defined checkpoints and contingency planning to ensure a smooth transition. A dedicated Command Centre provides real-time updates, rapid issue resolution, and transparent decision making.

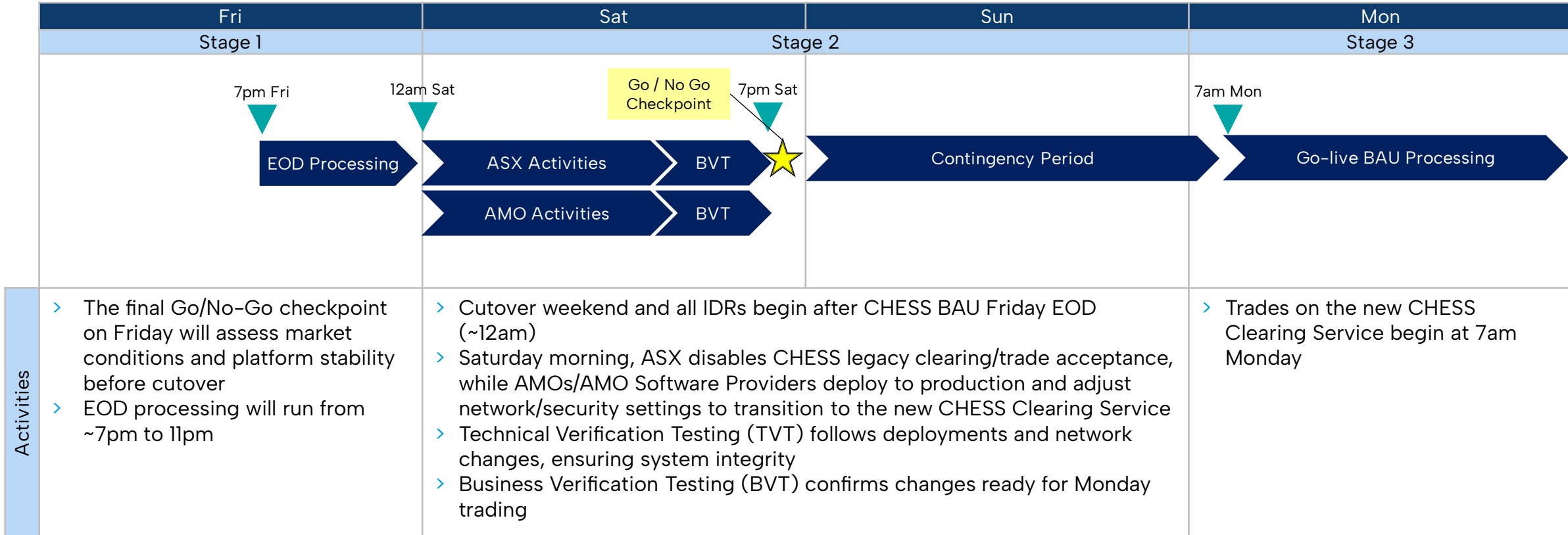
06 – Implementation Dress Rehearsals Overview

- > To ensure the successful implementation of Release 1, a series of critical readiness activities will be conducted before the cutover period
- > Once the industry testing phase concludes, AMOs will need to engage in implementation dress rehearsals (IDRs) and provide a final attestation leading up to the cutover
- > Participation in the IDRs by all AMOs is crucial, as it involves a comprehensive walkthrough of the end-to-end activities that both AMOs and ASX will perform during the go-live period
- > These rehearsals will take place in the To-Be-Prod environment, which mirrors the full infrastructure and non-functional characteristics of the final production setting
- > The goals of the IDRs include allowing AMOs to:
 - Validate, test, and refine their cutover strategies, ensuring the sequence of activities is accurately planned
 - Make necessary adjustments to the runsheet to guarantee all tasks can be completed within the allotted cutover timeframe
 - Test their communication lines with the ASX Command Room
 - Evaluate the cutover incident management protocols
 - Assess the backout procedures in case of unforeseen issues.

06 – Indicative Cutover Window

The commencement of the cutover window to the new CHES Clearing Service will be scheduled to begin after the completion of the Friday night BAU EOD batches in the ASX source systems.

This timing positions the start of the cutover activities to minimise disruption and take advantage of the weekend period for the transition.



Note: Dates and timing are indicative, subject to change based on working group feedback
 Note: All times quoted are AEST



06 – Cutover Documentation

Document	Purpose of Document	Intended Audience	Target Date for External Publication	First relevant Milestone	Required Input from AMOs
Release 1 Cutover Approach	<p>Detail the cutover and migration approach, key activities, responsibilities including:</p> <ul style="list-style-type: none"> > Key readiness milestones > Change verification approach > Indicative cutover weekend timeline 	AMOs and Software Providers	June 2025	IDRI 14 Nov 2025	<p>Input into the timeline for cutover – Cutover activities that AMOs need to perform including consideration of rollback</p> <p>Business Verification testing that could be performed on the cutover</p>
Cutover Operating Model	<p>This document outlines the framework and key processes that ensure a smooth and controlled cutover, and is a precursor to the supporting Runbooks, which are event focused. This deliverable will cover:</p> <ul style="list-style-type: none"> > Command Centre Operation > Governance & Escalation Procedures > Incident management process > Comms Model > Roles and Responsibilities > Logistics 	AMOs and Software Providers	1-2 months prior to first cutover event	IDRI 14 Nov 2025	Feedback on the Readiness tracking and comms model in advance of the document being published
Implementation Dress Rehearsal (IDRs) Runbook	<p>The purpose of this document is to provide AMOs all relevant information required to prepare for the Implementation Dress Rehearsals including key milestones across the weekend, success criteria, escalation and support contacts</p> <p>Key chapters:</p> <ul style="list-style-type: none"> > Timing for key milestones across the cutover weekend > Communication plan and support contacts > Entry and Exit criteria including Go / No-Go measures 	AMOs and Software Providers	1-2 months prior to cutover event	IDRI 14 Nov 2025	Feedback on the timeline, checkpoints, entry and exit criteria and comms model in advance of the document being published

06 – Cutover Next Steps

What to expect in the coming months

- > Bilateral meetings scheduled with AMOs to commence key cutover topic discussions, including:
 - Nature of AMO cutover plan and timing
 - Feedback on proposed dates for rehearsals
 - Development of run sheets for cutover window
 - Rollback and BVT
 - Cutover Readiness tracking
 - Cutover Operating Model

- > To further support AMOs, we plan to hold information workshops in late 2025:
 - Workshop sessions will cover all necessary cutover activities
 - Sessions are preparatory steps designed to ensure AMOs are fully equipped and ready for a seamless transition.

07

Forward Engagement for 2025

07 – Release 1 Proposed Engagement Activities for 2025

Activities and Documentation to Support R1 Industry Readiness

Activity	Subject	Purpose	Planned Date	Status
Publish Documentation	Release 1 Industry Test Approach	Documentation describing the detailed industry test approach and expected activities of each involved party, as well as timing, entry and exit criteria and expected test outcomes of all Release 1 industry test phases	Q3 2024	Published 6 Sep 2024
Publish Documentation	Release 1 FIX Specifications	Documentation providing a detailed specification of all FIX messages, including message structures, rules, and message flow diagrams. Market-relevant specifications will be published in iterations as ASX analyses and completes designs for each drop	Q4 2024	Published 14 Nov 2024
Publish Documentation	Release 1 Connectivity Guide	Documentation detailing the technical connectivity requirements to connect to the CHES replacement system, including connectivity method(s), network details and security details	Q4 2024	Published 17 Dec 2024
Engagement Activity	Release 1 ITE Open overview, including Industry Testing Activity and Progress Tracking	I&T WG session to provide overview of the opening of ITE, and discuss ASX proposed approach to tracking and reporting test phase activity	Q1 2025	Completed 27 Feb 2025
Publish Documentation	Release 1 AMO Accreditation Guide	Documentation providing detail on the CHES replacement AMO Accreditation phase, expectations regarding conduct and expected results including the Accreditation process, connectivity, and message scenarios	Q1 2025	Published 31 March 2025
Engagement Activity	Release 1 Clearing Regression Overview	I&T WG session to provide overview & discuss the prerequisites & process for completing the Clearing Regression phase	Q2 2025	Planned for May 2025
Engagement Activity	Release 1 Cutover Overview	I&T WG session to provide overview & discuss the prerequisites & process for completing Release 1 cutover activities	Q2 2025	Planned for May 2025
Publish Documentation	Release 1 Clearing Regression Test Guide	Documentation detailing the minimum ASX-specified Clearing Regression test scenarios, key activities and expectations regarding conduct and expected results including entry and exit criteria	Q2 2025	Planned for June 2025
Publish Documentation	Release 1 Guide to Operational Readiness Phase	Documentation detailing the Operational Readiness scenarios including mandatory success criteria	Q2 2025	Planned for June 2025
Publish Documentation	Release 1 Cutover and Migration Approach	Documentation detailing the cutover and migration approach, key activities, responsibilities including all verifications and validations required by ASX and the market, and milestones across the cutover and dress rehearsal windows.	Q2 2025	Planned for June 2025
Engagement Activity	AMO Parallel Phase Overview	I&T WG session to provide overview & discuss the prerequisites & process for completing the Parallel Test phase	Q3 2025	
Publish Documentation	Release 1 Guide to AMO Parallel Test	Documentation providing detail on the Parallel Test phase, key activities and expectations and expected results including entry and exit criteria	Q3 2025	
Publish Documentation	R1 Cutover Runbook	Documentation providing AMOs with key tasks and milestones, with an outline of detailed steps including planned timing. The runbook will be used in dress rehearsals and refined as required ahead of the final go-live event. Note that the cutover runbook will also include the steps required to rollback	Q3 2025	

07 – Indicative Forward Engagement Calendar (Rolling 3 Months)

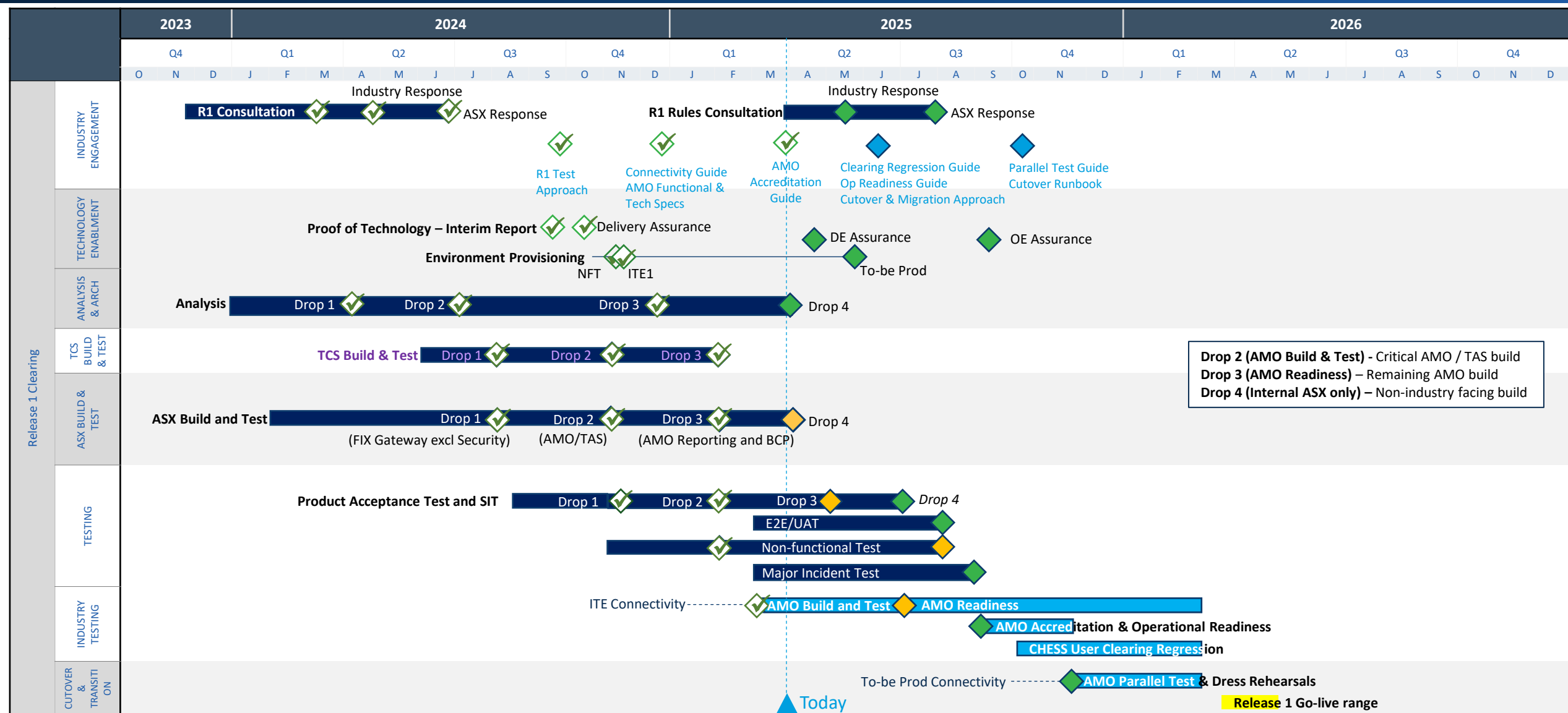
	April 2025	May 2025	June 2025
Technical Committee	<p>2 April</p> <ul style="list-style-type: none"> > Release 1 and Release 2 project update > Release 1 Industry Testing update > Working Group updates > CHES project – use of BICS discussion > Optional versus mandatory functionality discussion > Approach to customisation 	<p>6 May</p> <ul style="list-style-type: none"> > Release 1 and Release 2 project update > Release 1 Industry Testing update > Working Group updates > Optional versus mandatory functionality recommendation > CHES Project support model 	<p>4 June</p> <ul style="list-style-type: none"> > Release 1 and Release 2 project update > Release 1 Industry Testing update > Working Group updates
Implementation & Transition Working Group	<p>29 April</p> <ul style="list-style-type: none"> > Release 1 Operational Readiness and Approach > Release 2 Industry Test Tooling Approach (cont'd) 	<p>29 May</p> <p>Release 1 Clearing Regression and Cutover</p>	<p>26 June</p> <p>Release 2 Drop 1 Industry Test Tooling</p>
Release 1 Build & Test Forum	<p>10 April</p> <ul style="list-style-type: none"> > Monthly ITE activity tracking > Known FIX issues > Changes to the FIX Specifications > Cutover & Transition Readiness Overview > AMO Accreditation phase 	<p>14 May</p> <ul style="list-style-type: none"> > Build and Test update > Readiness tracking > Industry test phases 	<p>12 June</p> <ul style="list-style-type: none"> > Build and Test update > Readiness tracking > Industry test phases
Business Design Working Group	<p>3 April</p> <p>Release 2 Drop 2 Deep Dive</p>	<p>15 May</p> <p>Release 2 Drop 2 Deep Dive</p>	<p>5 June</p> <p>Payment Provider Focus Group</p>
ISO Design Working Group	<p>9 April</p> <p>Release 2 Drop 1 and 2 ISO messages and schema</p>	<p>21 May</p> <p>Release 2 Drop 2 ISO messages and Schema</p>	<p>19 June</p> <p>Release 2 Drop 2 ISO messages and Schema</p>

Thank you.

Appendix

- > R1 Indicative Project Timeline
- > R1 Industry Test Phase Summaries
- > Closed Actions

Appendix – Updated Release 1 Indicative Project Timeline – April 2025



Drop 2 (AMO Build & Test) - Critical AMO / TAS build
 Drop 3 (AMO Readiness) – Remaining AMO build
 Drop 4 (Internal ASX only) – Non-industry facing build

Release 1 Go-live range

Appendix – Upcoming Industry Test Phases Summary

	AMO Readiness	AMO Accreditation	AMO Operational Readiness	Clearing Regression	AMO Parallel Test
Planned Dates	Jul 2025 – Feb 2026	Sept – Early Nov 2025	Sept – Early Nov 2025	Oct 2025 – Feb 2026	Nov 2025 – Feb 2026
AMO Activity Required	Complete development of Drop 3 features, undertake testing, finalise software for accreditation (and ongoing testing to familiarise until Feb 2026)	Demonstrate software's ability to connect and interact with the CHES replacement system by completing specified accreditation scenarios	Demonstrate their organisation meets both the ASX's standards and operational requirements	AMOs revise participant IDs used in Trade Capture testing + support industry testing in their ITE integrated test environment	Reconcile current CHES production feed of trade registrations to CHES project feed on To-Be-Production infrastructure
Environment	R1 ITE	R1 ITE	R1 ITE	R1 ITE	R1 To-Be-Production
Entry Criteria	Completed build for features delivered in Drop 1 & 2 (ITE Open code base)	Successfully tested all AMO Accreditation scenarios and are ready to have AMO software assessed for formal Accreditation	Passed AMO Accreditation and have successfully tested all Operational Readiness scenarios.	Changes implemented to enable Clearing Participant testing in ITE, and processes required to support Clearing Participant testing in AMO ITE Integrated Test Environment communicated	Successfully completed AMO Operational Readiness assessment and ready to generate the FIX equivalent for Production trade registration and pricing data
Exit Criteria	Successfully tested all AMO Accreditation and are ready to have AMO software assessed for formal Accreditation	Demonstrated all AMO Accreditation scenarios have passed the success criteria	Demonstrated all Operational Readiness scenarios have passed the success criteria	AMO testing and Clearing Participant testing effectively coexisted enabling Clearing Participant attestations	Successful comparison of trade registration and pricing messages between current CHES and CHES project environments
Supporting Documentation	AMO User Technical Documentation	Release 1 AMO Accreditation Guide	Release 1 Guide to Operational Readiness Phase	Release 1 Guide to Operational Readiness Phase	Release 1 Guide to AMO Parallel Test
Supporting Documentation ETA	Feb 2025	Mar 2025	Jun 2025	Jun 2025	Sep 2025

Note: All AMO Activity Required, Entry & Exit Criteria to be completed by AMOs or their Software Provider (where relevant), and dates are indicative and may be subject to change

Appendix – Status of Known Issues (1/2)

Ref ID	Summary	Details	AMO Impact	Work around or Mitigation	Status	Target Fix Date
CHR-15238	MarketDataSnapshot (W) NEW FIX (W) Message incorrectly being rejected when MDEntryPx does not contain decimal point with at least one decimal place value.	Expected Behaviour: (W) Message accepted when MDEntryPx contains up to 15 digit value either with a decimal precision up to 6 decimal places or without (i.e. float number) Actual Behaviour: (W) Message rejected when MDEntryPx does not contain up to 15 digit value with a decimal precision of 1 or more up to 6 decimal places	AMOs will receive unexpected rejection when transmitting (W) messages that contain a float number in MDEntryPx field	AMO software must transmit (W) messages that contain a decimal precision value with one or more decimal place values in MDEntryPx field	In Progress	TBC – Under investigation
CHR-7684	If the FIX gateway receives a garbled message with the following incorrect tag ordering: 1. (35) MsgType 2. (8) BeginString 3. (9) BodyLength it creates an unstable state for the ASX FIX session and the subsequent message received will likely cause a session failure.	Expected Behaviour: The garbled message should be rejected Actual Behaviour: The FIX Gateway does not reject the message and the session state is compromised	AMOs will be required to reset the session with a new logon <A> after being forced disconnected, and will need to resume by specifying the next expected Msg sequence number (34)	This error would only occur should the AMO send a malformed message, which is unlikely to occur. A session reset can be applied in the unlikely circumstance that this does occur.	In Progress	
CHR-10792	FIX Gateway Message gap is not identified by FIX Gateway on a Logon (A) with higher MsgSeqNum (34) than expected (without NextExpectedMsgSeqNum (789))	Expected behaviour: The FIX Gateway should automatically transmit a ResendRequest(2) requesting the missing messages that the gateway has not received to be resent from the AMO Actual behaviour: The FIX Gateway fails to send the ResendRequest (2) message	When a gap is detected, automatic gap fill management will not occur, and the AMOs and ASX will not be aligned in terms of MsgSeqNum and NextExpectedMsgSeqNum. This will result in a corrupted FIX session state	This error would only occur should the AMO or ASX send an erroneous sequence of messages and there is a session reconnect requested with gap fills from both parties. This would result in a session failure and the AMO can request a session reset with a new Logon (A) with the message SequenceReset (4).	In Progress	TBC – Targeting Drop 3 (AMO Readiness Release)
CHR-12107	FIX Message re-transmission occurs in incorrect order when message gap identified from Logon (A) with higher MsgSeqNum (34) and lower NextExpectedMsgSeqNum (789) than expected.	Expected behaviour: The FIX Gateway should automatically transmit a ResendRequest(2) requesting for the gap (i.e. missing messages that the gateway has not received) to be resent from the AMO Actual behaviour: The FIX Gateway fails to retransmit the expected messages in the correct sequence	When a gap fill is requested in the logon, automatic gap fill will not occur, and the AMOs and ASX will not be aligned in terms of MsgSeqNum and NextExpectedMsgSeqNum. This will result in a corrupted FIX session state	This error only occurs if the AMO or ASX sends an erroneous sequence of messages and there is a session reconnect requested with gap fills from both parties. This would result in a session failure and the AMO can then request a session reset with a new Logon (A) with the message SequenceReset (4).	In Progress	

Appendix – Status of Known Issues (2/2)

Ref ID	Summary	Details	AMO Impact	Work around or Mitigation	Status	Target Fix Date
CHR-11318	MarketDataSnapshotFullRefresh (W) message – incorrect response message received when transmitting a (W) message, with one or more missing mandatory repeating groups (269) MDEntry tags.	Expected Behaviour: "One or more required repeating group codes are missing from the tag <269><MDEntry>" Actual: "<268><NoMDEntries>: [SUPPLIED_VALUE] is invalid"	AMOS will receive an incorrect error when this occurs	This will only occur if a malformed message is received from the AMO. AMOs should be aware that the correct message will not be transmitted in this circumstance.	Ready for deployment	Drop 3 (AMO Readiness Release)
CHR-12348	TradeCaptureReport (AE) message – incorrect Reject text is sent for invalid (2376) PartyRoleQualifier tag.	Expected Behaviour: "1238=<2376><PartyRoleQualifier>: [SUPPLIED_VALUE] is not an allowable value" Actual Behaviour: "1328=<2376><PartyRoleQualifier>: [23] is invalid"	AMOS will receive an unexpected error (typo) when this occur	Mitigation – AMOs should expect the incorrect error text.	Ready for deployment	
CHR-12858	MarketDataSnapshotFullRefresh (W) message – Spelling error on (75) Pricedate tag in Reject Text.	Expected Behaviour: 58=<75><Pricedate>:[20250108] is invalid Actual Behaviour: 58=<75><Pricedate>:[20250108] is invalid	AMOS will receive an unexpected error text string	Mitigation – AMOs should expect the incorrect error text.	Ready for deployment	
CHR-13018	MarketDataSnapshotFullRefresh (W) message if the (55) Symbol tag string length is > 15 characters it causes the FIX AE (Trade message) consumer group to fail and subsequent FIX AE messages are NOT processed.	Expected behaviour: The AMO should receive a FIX AU reject indicating invalid message tag value Actual behaviour: Consumer group fails and FIX session disconnect will occur	AMOs will lose connectivity and any subsequent FIX AE messages that were transmitted after the disconnection will be lost. Once the consumer group is brought back up, the AMOs will need to re-transmit the lost messages	This will only occur if a malformed message is received from the AMO, specifically (55) Symbol tag. This does not occur for formatting errors in other fields. AMOs should ensure this tag is properly encoded with the security code (of up to 6 characters in length).	Ready for deployment	
CHR-13599	TradeCaptureReportAck (AR) message – ACK message not sent back to AMO when input TradeCaptureReport (AE) message contains out of range value in (487) TradeReportTransType tag.	Expected behaviour: TradeCaptureReportAck (AR) rejecting malformed message Actual Behaviour: No TradeCaptureReportAck (AR) message transmitted	AMOs will not receive a response from the FIX Gateway when Tag 487 is not populated correctly on FIX AE	This will only occur should a malformed message be received from the AMO, specifically for an invalid value in (487) TradeReportTransType tag. AMOs should ensure this tag is properly encoded.	Ready for deployment	

Appendix – Closed Actions

#	Topic	Action	Raised	Due	Owner	Status
1	Testing Scenarios	AMOs to provide input as to the failover / DR scenarios they would like covered in the testing plan	15 Aug 2024	Q1 2025	AMOs	Closed
2	FIX Messaging	ASX to provide iterative updates on FIX specification document to AMOs AMOs to provide feedback on FIX messaging specifications	28 May 2024	Q1 2025	AMOs & ASX	Closed

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