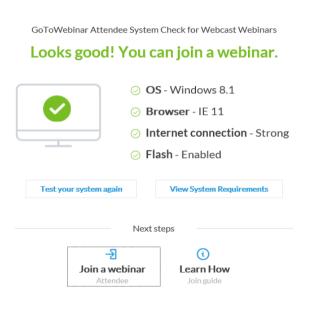


# Housekeeping: trouble shooting

- Check your system requirements
- Audio options:
  - Use your computer's mic and speakers ("Computer audio").
     Check that your computer's audio is unmuted
  - Use a telephone to dial in ("Phone call")
    - Phone number: **+61 2 9091 7604**
    - Access code: **519-706-086**
    - No need to enter an Audio PIN as audience is muted
  - 3. If you are still experiencing audio difficulties, try downloading the GoTo Webinar Application on your smart phone, and enter the Webinar ID: 350-098-971

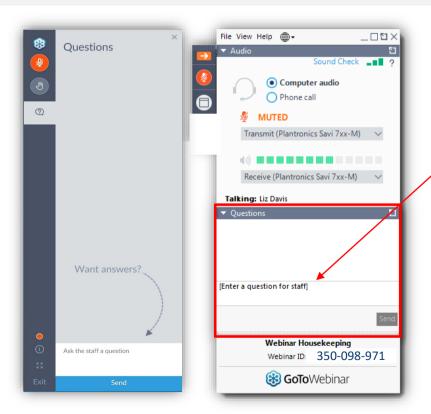
Further information:

https://support.goto.com/webinar/how-to-join-attendees





# Housekeeping: how to submit questions



### Your Participation

- To submit your text questions and comments use the Questions panel
- Note that your questions will not be seen by other attendees

For more information - refer to the webinar tips published on the ASX <u>CHESS</u>
Replacement web page



# Agenda

- Key points on the consultation paper
- Stakeholder engagement activities
- CDE update
- ASX registration details tool
- Q&A
- Next steps



### Presenters and introductions

Keith Purdie - Senior Manager, Stakeholder Engagement, Equity Post Trade Services

Timothy Hogben – Group Executive, Equity Post Trade and CHESS Replacement

Frederik Van Den Weghe - Head of Product, Equity Post Trade Services

**Katie McDermott – General Manager, Equity Post Trade Services** 

**David Brine - Project Manager & Communications Lead, Equity Post Trade Services** 





### Proposed changes to netting and settlement workflow

- > ASX published its consultation paper on 18 February 2021
- > The consultation paper sets out proposed modifications to netting and settlement confirmation workflows, including removing the creation of the net broker obligation (NBO)
- > The paper details how CHESS will operate under the proposed changes versus how CHESS currently operates and the code already deployed to CDE
- > It also sets out other considerations for migration activities
- > The proposed changes impact clearing and settlement and settlement only participants, software providers and AMOs. It does not impact share registries, PISPs and payment providers
- > ASX is seeking feedback from impacted stakeholders with 4 key questions
- > The consultation period runs for 4 weeks with written submissions due by 18 March 2021



### Background and context

- > CHESS replacement is designed to be horizontally scalable. However, the level of scalability required changed with the extreme volume increases in March 2020. This requires significantly more throughput capacity and the ability to scale more quickly to even higher throughput capacity post-Day 1
- > No appetite from the market (AMOs and front offices) for a capacity related event post go-live or for interim constraints on trading activity being imposed
- > A workflow change for CCP netting and settlement is required to deliver significantly higher capacity
  - This will likely require a refactoring of code already completed by software providers
  - It will have an impact on current workflows for clearing and settlement participants
- > Lower cost option to make the changes now than in the near term after go-live



### Feedback requested

- 1. For impacted participants, what impacts do the proposed changes have on your overall business processes, operations, and systems (e.g. cessation of NBO, introduction of NNDP, and/or the settlement confirmation changes)?
- 2. For impacted participants and software providers (third party vendors and those developing in-house), can the proposed solution design be enhanced or supplemented to assist with the implications of the proposed changes for existing business processes, operations and systems?
- 3. For impacted participants and software providers, what impacts do the proposed changes have on your organisation's technical readiness activities for accreditation commencing from late April 2022 and/or operational readiness activities commencing from September 2022?
- 4. For AMOs, do you see benefit in allowing for trade cancellation after trade date for trades executed on your market?

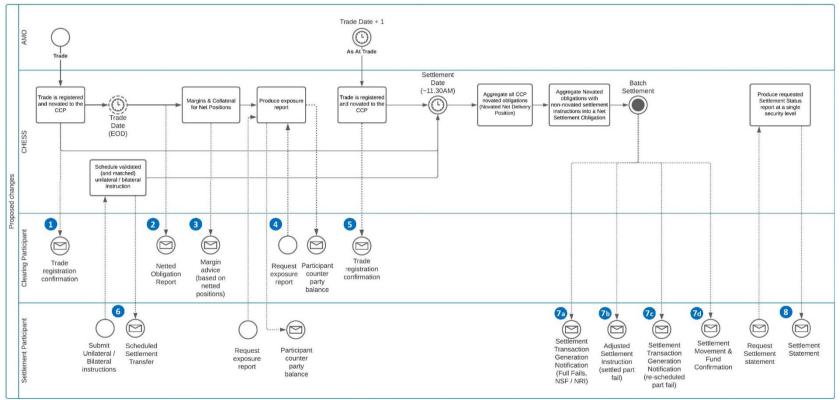


**High Level Overview** 



# **Netting and Settlement Process Redesign**

### Proposed business process







### Trade registration

### **Current process**

- > AMOs report trades to CHESS for the purpose of clearing and settlement
- > Each trade is legally novated and registered in the CHESS system
- > CHESS produces trade registration confirmation to the clearing participant for any trade successfully registered

#### **Proposed solution**

> No change

Process	CHESS (Current)	CHESS Replacement (Deployed to CDE)	CHESS Replacement (Proposed)
Trade registration	Trade registration confirmation upon	No change	No change
	successful registration of a trade		



### Netting and Generated Net Broker Obligation

### **Current process**

- > Subject to netting eligibility, CHESS runs an end of day netting process for all eligible novated market trades and replaces them with a single net broker obligation (NBO)
- > Clearing participants are notified of netted trades and the NBO via CHESS messaging
- > Scheduled NBO and netted broker-broker trade reports provides the ID of the NBO and the underlying trades

### **Proposed solution**

- > Existing netting eligibility criteria will be removed as all novated trades will be eligible for netting
- > Gross market trades will no longer be offset and represented for settlement through the NBO, and associated reporting will no longer be produced. Gross market trade legs will remain on the ledger until post settlement
- > New process to calculate on continuous basis a net payment and delivery obligation/receipt per security across novated market trades of a clearing participant for each settlement date and use in batch settlement



Netting and Generated Net Broker Obligation cont.

- > A new unsolicited net novated delivery position report (NNDP) will be provided to clearing participants at the end of each trading day setting out their net novated position for both securities and cash per account, security and basis of movement for each future settlement date
  - The NNDP reported to clearing participants provides their net position at a point in time. It may be subject to change prior to settlement
  - The NNDP will be calculated and updated on a continuous basis as trades are registered and novated

Process	CHESS	CHESS Replacement	CHESS Replacement
	(Current)	(Deployed to CDE)	(Proposed)
Netting eligibility criteria	Security and trade condition code eligibility	No change	All novated trades eligible for netting
Generated NBO	Scheduled NBO and netted broker- broker trade reports containing NBO and underlying netted trades	Netted obligation report containing NBO and underlying netted trades	Process is removed
NNDP report	Does not exist	Not in scope	Summary netted obligation report providing the netted position per settlement account, security and basis of movement

### **Un-netting**

### **Current process**

> Unwinding of the NBO and the reinstatement of the underlying gross market trades can be triggered by ASX Operations. When invoked, a re-instated broker-broker trade report is sent to participants

### **Proposed solution**

> No longer a relevant business process

Process	CHESS	CHESS Replacement	CHESS Replacement
	(Current)	(Deployed to CDE)	(Proposed)
Un-netting	Re-instated broker-broker trade report	Un-netted obligation report	Process is removed



### Margin calculations

### **Current process**

- > Calculated on a clearing participant's total net position, including all unsettled novated cash market transactions
- > CHESS notifies clearing participants of their daily margin obligations via a margin settlement advice message, which is available for collection during the overnight batch

### **Proposed solution**

> No change

Process	CHESS	CHESS Replacement	CHESS Replacement
	(Current)	(Deployed to CDE)	(Proposed)
Cash market margin	CMM on netted position, margin settlement advices during overnight batch	No change	No change



#### Trade cancellation

### **Current process**

> Market trades can currently only be cancelled by an AMO on the day of registration as trades are cancelled and offset by the NBO on the night of trade date.

### **Proposed solution**

- > As trades will persist in the system on an individual basis until batch settlement and no longer aggregated into a single NBO, trade cancellation can now be supported for all novated trades beyond trade date.
- > A change to operating rules will be required.

Process	CHESS	CHESS Replacement	CHESS Replacement
	(Current)	(Deployed to CDE)	(Proposed)
Trade cancellation	AMOs only have the ability to cancel	No change	AMOs will have the ability to cancel
	trades on trade date		trades after trade date



### Batch settlement

### **Current process**

- > CHESS produces the following output messages to settlement participants following batch settlement:
  - settlement confirmation message for each individual fully settled instruction;
  - notification of any rescheduled instructions, either in part or in full;
  - effected net movement including number of securities settled in batch per account, security, BOM, together with fund movement per payment facility

### **Proposed solution**

- > CHESS will move to an exception only reporting model. The system will no longer generate individual settlement confirmations for each fully settled instruction.
- > **For fully settled instructions**, the system will continue to provide two settlement confirmation messages at a net level:
  - A single funds movement message for total funds settled per payment facility
  - A settlement movement confirmation message for each account



### Batch settlement cont.

### **Proposed solution**

- > It is expected that participants can use the enhanced settlement movement confirmation message to reconcile the total of settled securities and the value of the net funds movement confirmation against scheduled settled instructions the successfully settled for that day
- > For fully failed instructions, settlement reporting will remain unchanged for each fully failed instruction
- > For partially settled instructions, settlement reporting will be revised:
  - Adjusted settlement instruction for the portion that failed and is being rescheduled (new message)
  - Settlement transaction generation notification for the portion that did settle (an existing message that will continue)
- > Additional reporting will be provided to assist with reconciliation breaks and for investigative purposes
- > A new settlement statement report, which can be requested on an ad-hoc basis, will provide a list of all settled instruction by account, security, basis of movement and settlement date



### Batch settlement cont.

> CHESS users will no longer rely on the 'status' of an individual instruction to determine settlement finality, but instead deem all instructions settled (excluding any failures) once settlement completion has been communicated.

Process	CHESS	CHESS Replacement	CHESS Replacement
	(Current)	(Deployed to CDE)	(Proposed)
Settlement confirmation (fully settled instruction)	Settlement notification for each settled instruction (NBO, non-netted gross market trade, unilateral and bilateral scheduled instructions)	No change	Settlement statement (demand report post completion of settlement providing the breakdown of the net settlement per account, security, basis of movement, and date combination, including all fully settled instructions)
Settlement notification (fully failed instructions)	Message notifying settlement participant of fully failed settlement instructions	Message notifying settlement participant of fully failed unilateral, bilateral and NRI settlement instructions	No change
		Failed and re-scheduled novated trades via the NSF and NRI processes using the settlement transaction generation notification message	No change



### Batch settlement cont.

Process	CHESS (Current)	CHESS Replacement (Deployed to CDE)	CHESS Replacement (Proposed)		
		No change	Two messages notifying settlement participant of part failed settlement instructions:  • Adjusted settlement instruction relating to portion of the instruction being rescheduled  • Settlement transaction generation notification, relates to portion of the instruction being settled		
Net settlement movement	including number of securities per account, settlement instruction count,	No change	Settlement movement message, including number of settled securiti and funds per account, security, and basis of movement		



#### Cancellation of batch settlement

### **Current process**

> On the very rare occasion that the settlement process is cancelled or fails to complete, CHESS cancels the funds obligations, notifies participants and reschedules all settlement obligations to the next business day.

### **Proposed solution**

- > All non-novated obligations and NRIs will be rescheduled to the next business date (in full). The replacement system will communicate this via a settlement instruction generation notification.
- > For novated gross market trades, which are calculated in the NNDP, an NSF will be created to "offset" the securities which cannot be settled and a corresponding NRI will be scheduled for settlement next business date.



### Cancellation of batch settlement

Process	CHESS	CHESS Replacement	CHESS Replacement
	(Production)	(Deployed to CDE)	(To Be)
Settlement cancellation	All obligations (NBO, non-netted gross market trades, unilateral and bilateral scheduled instructions) are rescheduled to the next business date	No change	NRIs, unilateral and bilateral scheduled instructions are rescheduled to the next business date using a settlement instruction generation notification.
	using settlement instruction rescheduling message		Novated gross market trades included in the NNDP value are re-scheduled with the creation of NSF and NRI (one NRI/NSF per NNDP calculation)



### Corporate actions

### **Current process**

> CHESS sends a diary adjustment, code change or class merger message to the participant for each changed obligation

### **Proposed solution**

> An adjusted settlement instruction message for each settlement instruction and for each gross market trade to the participant for securities subject to corporate action events

Process	CHESS (Current)	CHESS Replacement (Deployed to CDE)	CHESS Replacement (Proposed)
Diary adjustment, code change or class merger	Diary adjustment, code change or class merger message to the participant for each changed obligation (NBOs, gross market trades not included in NBO and unilateral/bilateral settlement instructions)	No change	Adjusted settlement instruction message for each settlement instruction (including gross market trades)



### mFund settlement

### **Current process**

> mFund applications and redemptions settle in batch using dedicated payment facilities to avoid contagion risk to cash equities

### **Proposed solution**

> mFund orders will continue to settle in batch as per existing functionality

Process	CHESS	CHESS Replacement	CHESS Replacement
	(Current)	(Deployed to CDE)	(Proposed)
mFund settlement	Application and redemption orders settle in batch using dedicated payment facilities	No change	No change



# Summary of changes



# Summary of the key changes

### What is and what is not changing?

### What is changing?

- Aspects of the netting process are re-designed, including the removal of the NBO
- New netting calculation input to settlement for novated market trades
- Netting related reporting is revised to better reflect the net position on which margins and settlement is performed
- The removal of individual settlement confirmations for fully settled instructions, improving batch settlement efficiencies and any potential technical contagion

### What is not changing?

- > Settlement still occurs on a net basis
- > The benefits of netting continue to be fully realised
- > Settlement finality remains unchanged
- Cash market margin continues to be performed on a net position
- Net delivery and funding positions continue to be reported to participants



# Summary of changes

# Summary of messaging changes, subject to feedback

<b>Business Process</b>	CHESS Production	CDE	Solution Proposal
Trade registration	EIS 164	sett_101	sett_101
Trade cancellation	EIS 116	sett_104	sett_104
NBO and net novated position	EIS 134	sett_102	New message: summary netted obligation report
	EIS 138		
Un-netting (NBO removal)	EIS 136	sett_103	Removed
	EIS 140		
Cash market margin	EIS 917	pldg_309	pldg_309
	EIS 940		
Settlement (fully settled instructions)	EIS 156	sett_119	New message: settlement statement
Settlement (part failed instructions)	EIS 192	sett_119	sett_119
		_	New message: adjusted settlement instruction
Settlement (fully failed instructions)	EIS 124	sett_130	sett_130
Net settlement movement	EIS 146	sett_136	sett_136
			(enhanced to include both settled securities and
			funds)
Settlement cancellation	EIS 124	sett_130	sett_130
Diary adjustments, code change and class merger	EIS 128	sett_139	sett_139





### Migration

- > No changes in terms of the impact to clearing participants for migration with the proposed solution design
- > The proposed changes to netting and settlement workflow still requires clearing participants to support the new obligation ID of migrated transactions
- > The change to the migration approach for novated settlement instructions is borne by ASX only
  - ASX will migrate NBOs and non-netted gross market trades, scheduled for settlement for the first two
    settlement days after go-live, as NRIs with a fail count of zero. Obligation IDs of migrated novated
    obligations will be mapped to the obligation ID of the resultant NRI
  - Non-netted gross market trades, scheduled for the third settlement day after go-live, will be migrated as gross trades, and settle per the proposed model
  - No changes are proposed to migration approach previously outlined for scheduled for unilateral and bilateral settlement instructions



### Other solution designs considered

- Retain current solution design
  - Does not future proof processes and changes would be required post go-live to provide for higher capacity
- 2. Retain current solution, change netted obligation report
  - Netted obligation report would not include references to the underlying trades that form part of the NBO
  - Netting processes continue to be linear and non-scalable
- 3. Remove NBO, remove individual settlement confirmations except for unilateral scheduled settlement instructions (USSIs) and bilateral scheduled settlement instructions (BSSIs)
  - Only partially removes the linear process of generating individual settlement confirmation messages
  - Participants scheduling securities directly from/to their client's account into the settlement account increases the number of individual settlement confirmation messages
- 4. Remove NBO, generate settlement confirmations post batch settlement
  - Delayed timing of settlement confirmation would not provide timely holding updates and reconciliation



### International comparisons and Ledger API

#### Comparison with other international clearing and settlement facilities

> While there is commonality with other international markets, there is no common model in the way central counterparty netting practice are conducted

### **Ledger API considerations**

- > The proposed changes to settlement workflows will have a corresponding change to how settlement obligation are represented on the ledger
- > Gross trades will remain on the ledger until settlement date and archived after settlement
- > This archiving of gross trades does not need to be considered in any business workflow by participants



# Stakeholder Engagement Activities



# Stakeholder Engagement Activities

### Consultation paper

- > Focus group sessions will be held with impacted stakeholders to facilitate stakeholder feedback on the proposed solution design.
  - Software providers 2 March
  - Clearing & settlement participants -3 March
  - Settlement only participants 4 March
  - AMOs bilateral engagement, if required
- > An ISO 20022 Technical Committee to be held on 26 March to discuss new ISO 20022 messaging requirements
- Publication of functional specifications is targeted for 31 March dependent on consultation feedback and messaging requirements subject to change pending ISO 20022 Technical Committee feedback
- > Formal response to consultation feedback to be provided ahead of functional code release at end June



# 2021 Forward Work plan

# **Key Project Milestones**

	January	February	March	April	May	June	July	August	September	October	November	December
Engagement on proposed changes to netting & settlement workflow redesign		Publish consultation paper Webinar Focus Groups	Committee			End June: release code into CDE (CDE10)						
Electronic CHESS holding statements				Inf	ormation pape design & sol (revised tin	ution		ng model publis Go-live (revised timing)				
Pricing – Day 1 Clearing, Settlement & other services	Engageme	ent with clearing ar participants	nd settlement	Eng	gagement with agencie		Announcem pric	ent of Day 1 cing				
Pricing - CHESS Access				Pub	ish access pric users	-						
Industry test strategy						on paper on ting strategy						
Migration approach – single cutover										Informati	on paper on the approach	migration
Operating rule amendments								Tranche 3 and	consolidated d Aug (open) to r	raft rules consu mid-Nov (close)	•	

<sup>\*\*\*</sup>IMPORTANT NOTE: all meetings, including dates and sequencing, are subject to change. This includes additional meetings based on stakeholder feedback\*\*\*



## 2021 Forward Work plan

## **Key Engagement Activities**

	January	February	March	April	May	June	July	August	September	October	November	December
Business Committee				Mtg #1			Mtg #2			Mtg #3		Mtg #4
				14 April			14 July			6 Oct		8 Dec
Issuer Engagement	Publish Issuer readiness factsheet						Targeted webinars e.g. electronic statements, DLT demos					
I&T Working Group		Webinar (inc. proposed changes to netting and settlement workflow)	Webinar (inc. ASX Registration Details tool demo)	Webinar (inc. proposed changes to netting & settlement workflow feedback)	Webinar (Topic TBC)	Webinar (inc. CDE 10, connectivity accreditation scenarios)	Webinar (inc. Industry test strategy)	Webinar (Topic TBC)	Webinar (inc. CHESS UI demo and CDE 11)	Webinar (Topic TBC)	Webinar (inc. ITE1)	Webinar (Topic TBC)
Software Provider Readiness Working Group									Kick off – WG #1 (inc. ITE connectivity)	WG #2	WG #3	WG #4
Customer Readiness Working Group												[to commence in 2022]
Cutover & Transition Readiness Working Group												[to commence in 2022]



# CDE update



## **CDE Update**

## Forward workplan



- > CDE 9 has been available since the end of November 2020 for testing
- > End of January 2021 announced CDE Uplift and CDE mFund additional releases to CDE
- > **CDE Uplift** release introduces:
  - Infrastructure upgrade to support longer running CDE environments
  - New demand reports Holding Balance (HBAL) and Holding Subposition Balance (HSBL)
  - New self-service tools
- **CDE mFunds** release has been brought forward from by two months and is now scheduled for end of April 2021 (instead of June 2021)



## **CDE Update**

## CDE Uplift - New test tooling

Tool	CHESS User Type	Tool Type	Function				
Broadcast request	Issuer (Registry), Controlling Participant, Payment Provider, Product Issuer Settlement Participant	Self-serve	rovided to facilitate internal test use cases acting on behalf of ASX operations for: notification of extension of batch settlement cutoff, notification of Participant default, and notification of a generic messages for example, system maintenance or delay to end of day reporting				
SRN enquiry	Issuer (Registry)	Self-serve	<ul> <li>SRN Enquiry</li> <li>SRN Balance Enquiry, and</li> <li>Multiple records for SRN Enquiry and Balance Enquiry</li> </ul>				
Transfers & conversions	Issuer (Registry)	Self-serve	<ul> <li>Participant to Issuer (Registry) transfers and conversions, and</li> <li>Issuer (Registry) to Participant transfers and conversions</li> </ul>				
Bid election / election withdrawal	Controlling Participant, Offeror	Auto- responder	<ul> <li>Where a Controlling Participant initiates a Bid Election or Bid Election Withdrawal, the Auto-responder will act as the Offeror</li> <li>Where an Offeror initiates a Bid Election, the Auto-responder will act as the Controlling Participant</li> </ul>				



ASX Registration Details Tool



## **ASX Registration Details tool**

#### Application form

#### Purpose of the tool:

- To convert account registration details from the legacy to format aligned to ISO 20022 messaging standard
- To identify accounts with registration details that are not aligned to ISO 20022 messaging standard and/or business rules in CHESS Replacement

#### Who can apply for the tool:

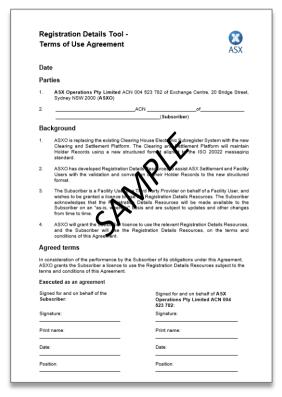
Software Providers, Issuer (Registries)

#### Accessing the tool:

- Download the Terms of Use application form end February
- Application forms to be emailed to <a href="mailto:CTS@asx.com.au">CTS@asx.com.au</a>

#### Support from ASX:

- Technical use of the tool contact CTS@asx.com.au
- Data queries & remediation contact <u>CSPSupport@asx.com.au</u>





Q&A



# Next steps



## Next steps

#### **Consultation paper review and feedback:**

- > Written submissions from CHESS users due by **18 March 2021** see page 2 of consultation paper for submission instructions
- > Webinar recording, slides and Q&A will be published on the CHESS Replacement webpage

#### Focus Groups and ISO 20022 Technical Committee meetings:

- > Impacted stakeholders will have received an invitation to attend a Focus Group meeting on 2, 3 or 4 March
- > Invitations for an ISO 20022 Technical Committee meeting will follow for 26 March

#### **Next Implementation & Transition Working Group meeting:**

> Topic: Demonstration of registration details tool

Date: 31 March 2021



# Thank you.





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