

# Program Newsletter



[CHESS Replacement homepage](#)

## CHESS Replacement Project Update

### January 2020

As 2019 came to an end, we delivered our fifth drop of code in to the Customer Development Environment (CDE).

There are a number of recent and near-term activities that I would like to share with you as we roll into 2020.

- Both of the business requirements ear-marked for progression independent of the CHESS Replacement project, [Transfers to the CHESS Subregister](#) and [Corporate Actions Takeover Offer](#) are now completed.
- On 8 January we updated our Technical Documentation with information relating to batch settlement testing within CDE. You can read more about it in the [What's New page - 8 January 2020](#).
- We will hold the next **ISO 20022 Technical Committee** meeting on 28 January as we near completion of the work replacing the existing EIS message set with ISO 20022 messages.
- Our next industry **Implementation & Transition Working Group** webinar will take place on 29 January, which will focus on the management of inflight transactions at the cut-over to the new system.
- We will bring forward the publication of some functional specifications in our **Technical Documentation** portal to the end of January, ahead of the planned February release - in order to share as much of the new specifications and design as we have them. Subscribers to technical documentation will receive details of this publication soon.
- We will also be hosting a **Connectivity & Integration Working Group** meeting in mid-February which will provide an update on our next code release (CDE6).

Information about upcoming meetings and all other detailed updates can be found on our newsletter page, by clicking in to the individual sections below.

If you have any feedback on the content of this newsletter please contact the project team at [CHESSReplacement@asx.com.au](mailto:CHESSReplacement@asx.com.au).

Happy new year and we look forward to working with you in 2020.



**Cliff Richards**

Executive General Manager  
Equity Post Trade

A decorative graphic consisting of a dark blue arrow pointing to the right, which transitions into a light blue rectangular bar.

## Engagement Activities



## Connectivity & Integration Working Group

A Connectivity & Integration working group (C&I WG) was held on 4 December and included an overview on Browser & Reporting. The next meeting will be held on 19 February.

[Read more >](#)



## Focus Groups

Focus Groups were held on 21 November and 12 December. This concludes the planned engagement through Focus Group meetings.

[Read more >](#)



## Implementation & Transition Working Group

The latest Implementation & Transition working group was held on 18 December. The webinar presented ASX responses to market questions and feedback. The next webinar will be on Wednesday 29 January.

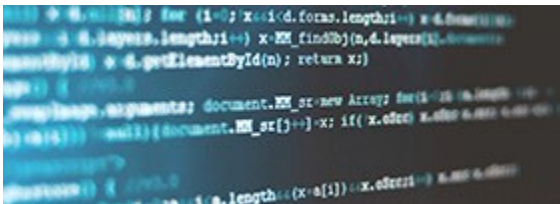
[Read more >](#)



## ISO 2022 Technical Committee Meetings

ASX will convene one ISO 2022 Technical Committee meeting during this month, on 28 January. The following committee meeting will be held on 25 February 2020.

[Read more >](#)



## Customer Development Environment Updates

Our fifth release of code (CDE 5) was released on 13 December, which added Change of Controlling Participant, Settlement Locks on HINs, Issuer's Agent Transfer (Warrants) and other capabilities. ASX will publish the next update of the application in CDE by end February (CDE 6).

[Read more >](#)



## Rule Amendment & Public Consultation Timeline

The deadline for written submissions to ASX's consultation paper on the first of three tranches of operating rule amendments was 17 January. The consultation on the second tranche of operating rule amendments will be released in mid-February.

[Read more >](#)



## Corporate Actions STP

The Corporate Actions STP Phase 2 project continues work on 2020 release schedule.

[Read more >](#)



## Customer Frequently Asked Questions

We have established the CHES Replacement mailbox & CSP Support mailbox as a means of addressing any project related questions. We have highlighted the most recent questions of interest.

[Read more >](#)



## BAU Project Updates

Two business requirements, identified as part of the 2017 CHES Replacement Business Requirements Working Groups, have been progressed by ASX outside of the CHES Replacement project, as Business-As-Usual activities, as neither are dependent on the new system.

[Read more >](#)

## Technical Documentation



[What's new](#)



[Release notes](#)



[Forward release plan](#)

## Where to next?



Upcoming activities



Project milestones



Useful weblinks

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[CHESSReplacement@asx.com.au](mailto:CHESSReplacement@asx.com.au)

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# Connectivity & Integration Working Group

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## Connectivity & Integration Working Group

The latest Connectivity & Integration working group (C&I WG) meeting was held on **4 December 2019**. The session provided details on:

- CDE 5 updates
- Overview of proposed changes to Reporting
- Updates on the CHESSE secure Browser

Materials from this session can be found [here](#).

The next C&I WG meeting will be held on **19 February 2020**, topics for discussion include a forward view of CDE 6.

A list of previous meeting topics, future Working Group dates, as well as a copy of all working group presentation materials can be found [here](#).

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# Focus Groups

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## Focus Groups

Focus Groups were held on 21 November 2019 and 12 December 2019 respectively.

The Focus Group held on **21 November** was on the topic of Demand Reporting. This focus group was requested by the share registry community to facilitate a reporting deep-dive, in addition to reporting message discussions being facilitated via the ISO 20022 Technical Committee which included the broader stakeholder cohorts.

The Focus Group discussed a number of topics, which included:

- Holder and holding enquiries
- Transaction history and obligation reports
- Movement and balance reports
- Security details report

The Focus Group held on **12 December** was on the topic of Excess Cash and Margin Settlement. Focus Group attendees included clearing participants that utilise the excess cash function to support cash market margin obligations.

The Focus Group discussed a number of topics, which included:

- Notification and reporting supporting daily cash market margin obligations
- Management of daily margin settlement via the use of excess cash
- Management of funding via the use of excess cash standing instruction

Focus Group attendees were requested to provide feedback to the presented solutions.

A summary of key themes raised through the Focus Groups, as well as ASX's response to stakeholders' feedback will be published with the release of Technical Documentation for the final functional specifications that are developed.

This concludes the planned engagement through Focus Group meetings. A list of previous meetings can be found [here](#).

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# Implementation & Transition Working Group



## Implementation & Transition Working Group

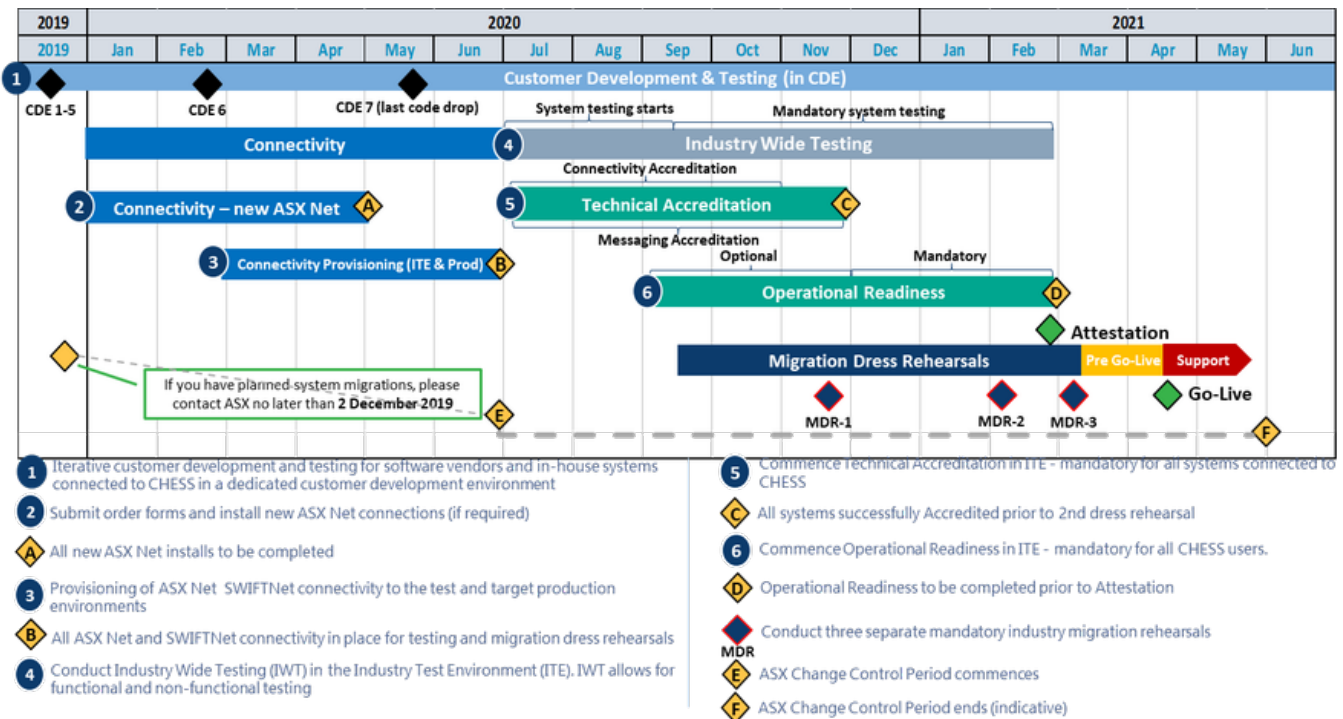
The latest Implementation & Transition working group (I&T WG) webinar was held on **18 December 2019**.

The webinar aimed to provide ASX responses to market questions and feedback and a re-cap of the major activities and timelines.

[Implementation & transition questions](#) have been published in the Technical Documentation portal, in line with this session. Information on what to expect of Industry Wide Testing (IWT) and key dates have also been updated [here](#), also in the portal.

Presentation slides from December are available [here](#), and webinar recording available [here](#) on the CHES Replacement website.

The next I&T working group webinar will be on **Wednesday 29 January 2020**, 2pm - 3pm, and will focus on inflight transaction during the transition period and cutover weekend.



### REMINDER: For your consideration in planning your implementation

#### CHES Changes:

- If you have any migrations or other significant changes to your CHES configuration planned between July 2020 and April 2021 please contact the Participant Transitions team at [participant.transitions@asx.com.au](mailto:participant.transitions@asx.com.au)

Materials from previous meetings can be accessed [here](#) on the CHES Replacement Stakeholder Engagement website.

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# ISO 20022 Technical Committee Meetings

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## ISO 20022 Technical Committee Meetings

ASX will convene one ISO 20022 Technical Committee meeting during this month. The meeting will be held on **28 January** and provide an overview of the Margin Settlement & Excess Cash Instruction Focus Group and the proposed ('to-be') ISO 20022 messages for the business function of mFund redemption and Corporate Action refund. ASX will also provide an overview of updates to the Demand Reporting solution, and provide members with a summary of member feedback on the previously published draft messages regarding Corporate Action Elections, Investor Details, and Settlement Processing of Unit Failure.

Following that, the next ISO 20022 Technical Committee meeting will be held on **25 February 2020** in Sydney. The agenda for the meeting is not yet determined. ASX will also provide a summary of member feedback on the previously published draft messages for mFund redemption and Corporate Action refund.

A list of previous meeting topics and materials as well as future ISO 20022 Technical Committee dates can be found [here](#).

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# Customer Development Environment Updates

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## Customer Development Environment Updates

Our fifth release of code (CDE 5) was released on **13 December 2019**, which added Change of Controlling Participant, Settlement Locks on HINs, Issuer's Agent Transfer (Warrants) and other capabilities. ASX will publish the next update of the application in CDE by **end February 2020** (CDE 6).

### CDE - Release 5

ASX recently refreshed CDE with a new code drop, Release 5 on 13 December 2019. New capabilities introduced with this code drop included:

- Change of Controlling Participant - [July 2019 release notes](#)
- Settlement Locks on HIN Holdings - [December 2018](#) and [September 2019 release notes](#)
- Issuer's Agent Transfer (Warrants) - [October 2019 \(part II\) release notes](#)

With the CDE5 code release notes ASX provided details of minor updates to testing documentation as well as any known issues or observed behaviours in the development environment.

**Within the Release Notes for CDE 5, ASX advised that they will refresh environments every two weeks for internal CDE maintenance. ASX will always notify CDE Subscribers prior to any environment refresh.**

### CDE - Release 6

ASX will publish the next application code release in to CDE by **end February 2020** (CDE 6). Features associated with this code drop were published in our Release 6 notes - [November 2019](#) and January 2020. New capabilities planned to be introduced with this drop will include:

- Collateral Management - ETO & CMM
- Batch Settlement - Unit Fails
- Primary Market Facility: Placements
- Payment Facilities - for facilitation for the payment or receipt of funds on a RTGS basis

Details of remaining CDE code drops are published on our [Forward Release Plan](#) on our Technical Documentation portal.

#### CDE reminders:

The CDE supports early access development and low volume transaction and functional testing, following iterative development of the technical solutions.

- We have published for users details of CDE [constraints](#) and any [known limitations](#).
- ASX may refresh the CDE environment periodically, ASX will always notify the CDE Subscribers prior to any environment refresh
- Details of how to [request access](#) to the CDE are available in our Technical Documentation portal.

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## Corporate Actions STP

### **Corporate Actions Straight Through Processing Phase 2 project**

The STP project team continues to work with the CHES Replacement team and industry working group on a number of activities. The project is working to finalise the specifications and development for the ISO 20022 notification service for all in scope corporate action events. The CHES Replacement system will consume the ISO 20022 corporate action event notifications. The availability of the ISO 20022 notification service for all corporate action events is expected to be mid-2020. The team is also continuing work to develop and build additional online forms for the use of listed entities to announce certain events.

More information is available on the ASX website [here](#).

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# BAU Project Updates

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## BAU Project Updates

Two business requirements identified as part of the 2017 CHES Replacement Business Requirements Working Groups (captured in ASX's April 2018 Consultation Paper "[CHES Replacement: New Scope and Implementation Plan](#)") have been progressed by ASX outside of the CHES Replacement project, as Business-As-Usual activities, as neither are dependent on the new system.

We are pleased to confirm that both of the business requirements are now completed. For further information see the respective market notices for [Transfers to the CHES Subregister](#) and [Corporate Actions Takeover Offer](#).

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# Rule Amendment & Public Consultation Timeline



## Rule Amendment & Public Consultation Timeline

On 15 November 2019, ASX released a [consultation paper](#) on the first of three tranches of operating rule amendments required to facilitate the implementation of the new system that will replace CHES in April 2021. These relate to accounts, participants, securities and pre-settlement aspects for Day 1 CHES replacement system functionality. The consultation paper invited feedback from users and other stakeholders on the operation of the draft tranche 1 rule amendments, including any unintended consequences by **17 January 2020**.

As shown in the timeline below, ASX expects to provide one formal response to the feedback from all three tranches in early October. ASX also expects to advise of any proposed material changes to each tranche of rule amendments approximately six weeks after the feedback deadline for each tranche (for this first tranche this is expected to be available by March 2020).

A consultation paper on the second tranche of rule amendments will be released in **mid-February 2020**. That consultation paper will set out how submissions on the tranche 2 rule amendments can be provided to ASX.

### Timeline Overview

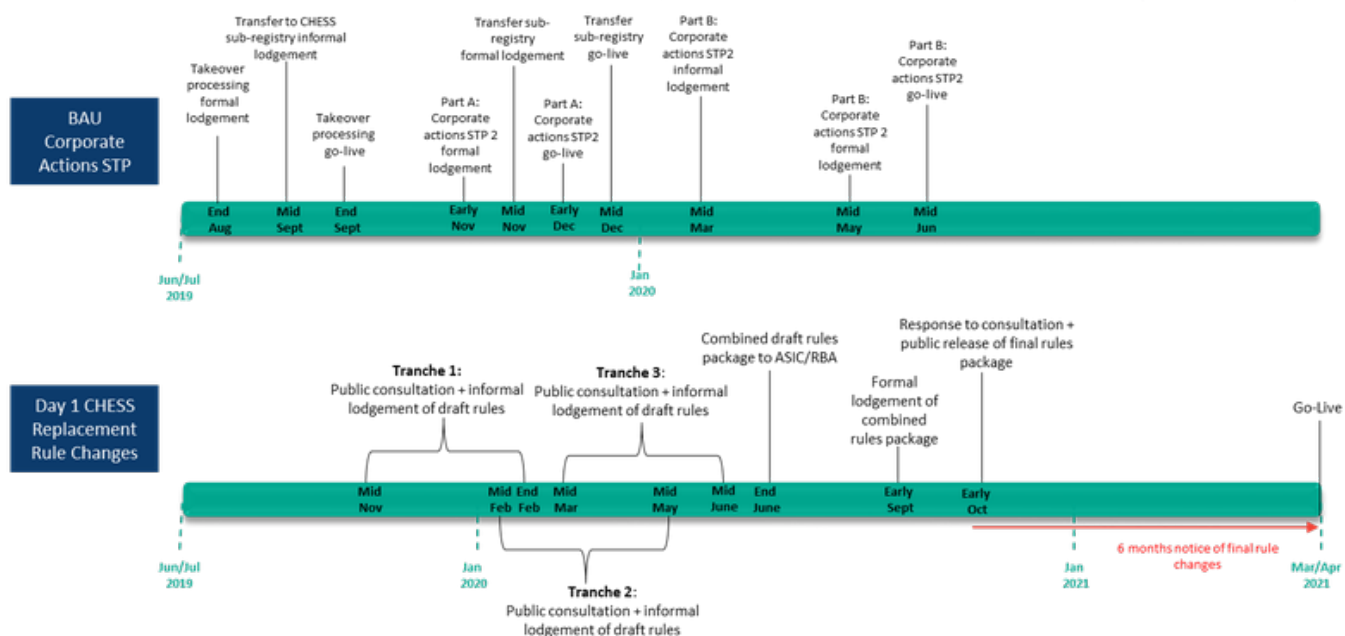
ASX has been engaging with regulators in relation to the rules and other relevant regulatory aspects that need to be addressed to support any new or changed services and functionality, including our indicative timeline.

Included below is a timeline setting out key dates for regulatory and public consultation processes for the rule amendments required for CHES Replacement.

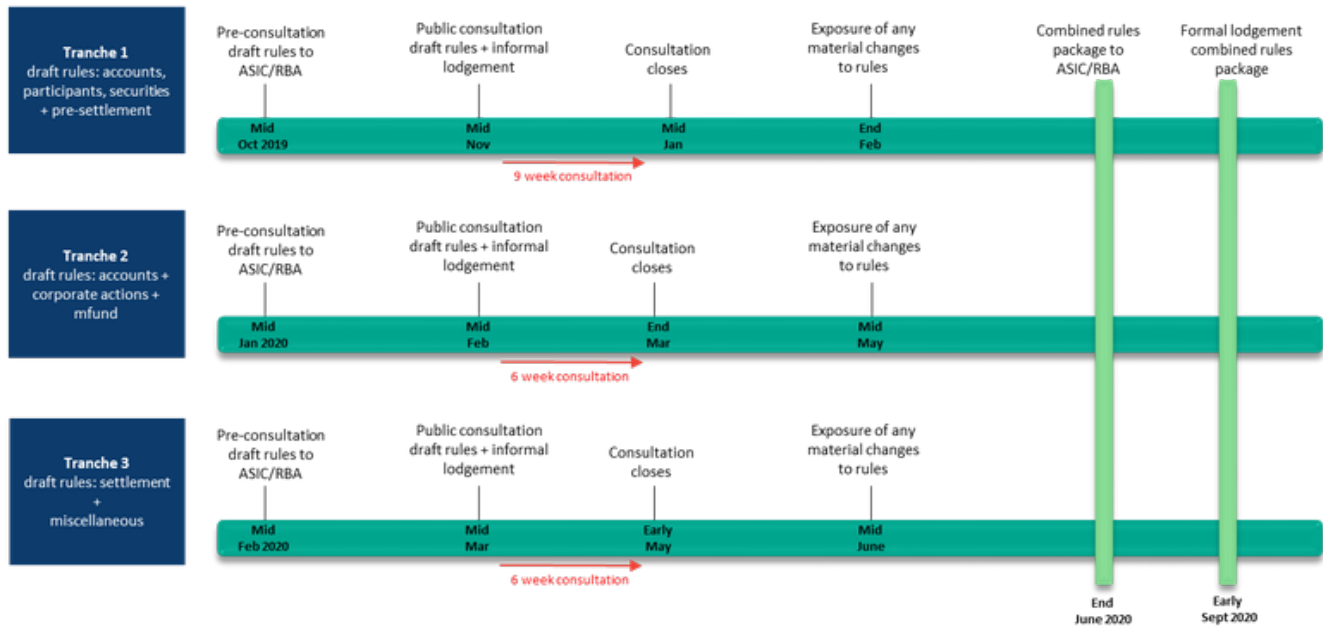
The timeline covers rule amendments required for Day 1 changes in the new system, including new business requirements, re-engineering of solutions for existing CHES functionality and the decommissioning of existing CHES functionality.

The timeline also covers rule amendments that address new business requirements generated through industry consultation but which are not dependant on the new system and are being progressed through ASX Business as Usual (BAU) processes or the Corporate Actions STP Phase 2 Project. These will be delivered prior to the replacement system going live.

## New Post Trade System Rule Development Timeline: Key Dates (2019-20)



# Day 1 CHESS Replacement: Detailed Rule Development Timeline (2019-20)



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## Upcoming Activities

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### Upcoming Activities

Date	Activity
Tuesday 28 January 2020, 3pm to 5pm	ISO 20022 Technical Committee ( <a href="#">refer here</a> )
Wednesday 29 January 2020, 2pm-3pm, 2020	Implementation & Transition working group ( <a href="#">refer here</a> )
end January 2020	Technical Documentation publication - early release 7 Part I ( <a href="#">refer here</a> )
Wednesday 19 February 2020, 2-3.30pm, 2020	Connectivity & Integration (C&I) working group - CDE 6 ( <a href="#">refer here</a> )
Tuesday 25 February 2020, 3pm to 5pm	ISO 20022 Technical Committee ( <a href="#">refer here</a> )
Wednesday 26 February 2020, 2pm-3pm, 2020	Implementation & Transition working group ( <a href="#">refer here</a> )
end February 2020	Technical Documentation publication - release 7 Part II ( <a href="#">refer here</a> )
end February 2020	CDE 6 code release ( <a href="#">refer here</a> )

Refer to the CHES Replacement [Project Milestones](#).

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# Customer Frequently Asked Questions

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## Customer Frequently Asked Questions

We have established the CHES Replacement mailbox & CSP Support mailbox as a means of addressing any project related or functional questions. We have highlighted the most recent questions of interest.

✓ [Implementation & Transition questions - click for details](#)

Questions relating to the approach to transition, cutover and accreditation will be published in our Technical Documentation portal under [Frequently Asked Questions](#). We will continue to highlight any common questions in our regular newsletter.

✓ [Functionality - Locking & Unlocking - click for details](#)

✓ [Can you please provide further information around Settlement Locks?](#)

Please find the following detailed description for Settlement Locks:

**On Request – Mandatory** - is available for “Bilateral Demand Transfer” and the new “Bilateral Demand Settlement Instruction”. The lock is mandatory and is applied immediately because ASX considers the nature of these movements is “demand” so units must be locked otherwise when the counterparty submits its message and the units are not in the delivering HIN the movement will fail. This defeats the purpose of the movements being “demand”.

**On Request – Optional** - is available for “Unilateral Settlement Instructions” and “Bilateral Settlement Instruction”. The lock is optional and will only be applied if the original message is submitted with the optional lock set to true. ASX considers the nature of these movements to be “scheduled into the future” (not “demand”) so the delivering participant is allowed time to receive units in to cover the movement after the original message is submitted. There is an exception to this workflow for a Unilateral Settlement Instruction where the delivering Account (HIN) in the Accumulation Entrepot of the participant and the receiving Account (HIN) is the Settlement Entrepot of the participant. In this case the CSP will apply a lock on request and if insufficient units are unavailable in the delivering Account (HIN) the instruction will be rejected.

**On Match** - Is available for “Bilateral Settlement Instructions”. The lock can be set to “on Match” on the original message so that if the participant does not have sufficient units in the delivering account at the time of the original message but believes that units will arrive prior to the counterparty submitting its matching instruction then on match the units will be locked. The participant can rely on the lock for movements that match.

**Settlement Lock** - is available for “Unilateral Settlement Instructions” and “Bilateral Settlement Instructions”. This particular feature allows the participant to apply a lock at any time for an instruction that had not already be set to Lock on Request or Lock on Match. The lock can be set regardless of whether the instruction is matched on unmatched and at any time after the original message was sent and before the commencement of Batch Settlement.  
Settlement Lock Descriptions.

For further information refer to [Settlement Locks Overview](#) in our Technical Documentation portal.

✓ [Can you confirm the Account and Holder Locking and Unlocking process?](#)

The Lock and Unlock can happen in the following scenarios:

1. Lock a holder in case of Notification of death (NODE) and Notification of bankruptcy (BKR)
2. Unlock a holder which was locked following a notification of death.

Holder update reason:

- Grant of Probate or Letters of Administration (GPLA)
- Small Estate Statement (SEST)
- Transfer Indemnity Bond (TIBD)

- No holdings (NHLD)
- 3. Unlock a holder which was locked following a notification of bankruptcy.

Holder update reason:

- Legal Trustee Request (LTRQ)
- Annulment (ANNT)

- 4. Unlock a holder which was locked in error

Holder update reason:

- Error (ERRO)

- 5. Lock and Unlock an account for a non-specific reason

Account update reason:

- Non-specific (NOSC)

- 6. Lock and Unlock an account following a court order.

Account update reason:

- Subject to Court Order (SNCO)

- 7. Unlock an account which was locked in error.

Account update reason:

- Error (ERRO)

For further information refer to [Account and Holding Locking and Unlocking Overview](#) in our Technical Documentation portal.

#### ▼ [Ledger API - click for details](#)

##### ▼ [What is a DAML Party?](#)

CHESS Users are represented as a DAML party in the system. A party is identified in the system by its unique DAML Party Identifier. To connect to the CSP via the Ledger API, CHESS Users undergo a formal on-boarding process which grants them one or more DAML Party Identifier(s) and permits them to access a master ingress contract.

For further details on Ledger API connectivity refer to the [CHESS Replacement Technical Documentation - Connectivity](#).

##### ▼ [What is a Master Ingress Contract?](#)

The master ingress contract is a non-consuming DAML contract that allows CHESS Users to issue a command to the CSP to start the associated workflow.

Each DAML party in the system is permissioned to execute specific commands and business workflows as set out in the party's master ingress contract. Each command, is a combination of choice with a parameter, which when exercised, sends an instruction to the CSP. A party can initiate a workflow by exercising a choice on the master ingress contract, which triggers a piece of code, representing a workflow, and results in one or more contracts being created or archived on the ledger.

For further information refer to [Identify the Master Ingress Contract](#).

For further details on Ledger API connectivity refer to the [CHESS Replacement Technical Documentation - Connectivity](#).

##### ▼ [How do I view exercised events committed to the Ledger?](#)

When developing a Ledger API client application, events can be viewed using the `getTransactionClient.getTransactionsTrees()` method.

This will produce not just the committed event but the entire transaction in a tree structure. The Transaction Tree structure contains exercised choices, contracts created, and scenarios run among other events. For further information and a full description of all the attributes visible on a transaction tree, refer to the [DAML SDK](#).

For further details on Ledger API connectivity refer to the [CHESS Replacement Technical Documentation - Connectivity](#).

##### ▼ [What will be the most likely replacement for CHESS PC?](#)

ASX will be introducing a new secure browser for CHESS Replacement intended for low volume usage allowing users the ability to enter

messages in the same way as they can with CHES PC. Details can be found in the CHES Replacement consultation paper. Refer to our [website](#) for details.

The new browser will provide users the ability to upload and download files on an ad-hoc basis but unlike CHES PC the solution will not support the scheduling of files.

CHES users who currently use CHES PC or CHES Access as a message gateway need to review which of the three new channels to connect to CHES Replacement. Please contact [CHESReplacement@asx.com.au](mailto:CHESReplacement@asx.com.au) if you would like to discuss these options with the ASX.

Further specifications and functionality for the browser will be published and updated in our Technical Documentation under the [Connectivity](#) topic.

Many other questions about CHES Replacement can be found at the following links:

- [General CHES Replacement questions](#)
- [Technical Documentation FAQs](#)

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## Useful weblinks

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### Useful weblinks

ASX CHES Replacement communications (including past newsletters):	<a href="https://www.asx.com.au/services/chessreplacement-communications.htm">https://www.asx.com.au/services/chessreplacement-communications.htm</a>
ASX CHES Replacement System Access Pricing	<a href="#">Pricing Letter - September 2019</a>
CHES Replacement - Tranche 1 Rule Amendments	<a href="#">Consultation Paper - November 2019</a>
Toronto Centre Podcast: Introducing the Newest Technology to Capital Markets: The Industry's Perspective	<a href="#">Podcast - July 2019</a>
ASX CHES Replacement website:	<a href="https://www.asx.com.au/services/chess-replacement.htm">https://www.asx.com.au/services/chess-replacement.htm</a>
ASX Technical Documentation:	<a href="https://asxchessreplacement.atlassian.net/wiki/spaces/CSP/overview">https://asxchessreplacement.atlassian.net/wiki/spaces/CSP/overview</a>
Digital Asset – DAML (including requesting the SDK):	<a href="https://daml.com/">https://daml.com/</a>
ASX Response to consultation feedback:	<a href="https://www.asx.com.au/documents/public-consultations/response-to-chess-replacement-consultation-feedback.pdf">https://www.asx.com.au/documents/public-consultations/response-to-chess-replacement-consultation-feedback.pdf</a>
ASX 2018 Consultation Paper:	<a href="https://www.asx.com.au/documents/public-consultations/chess-replacement-new-scope-and-implementation-plan.pdf">https://www.asx.com.au/documents/public-consultations/chess-replacement-new-scope-and-implementation-plan.pdf</a>
Recent ASX Webinars:	<a href="https://www.asx.com.au/services/webinar-archive.htm">https://www.asx.com.au/services/webinar-archive.htm</a>

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