

# Program Newsletter



## CHES Replacement Project Update

### November 2019

It's a packed update this month, with the sixth tranche of technical documentation due for publication towards the end of November, the fifth drop of code (CDE5) due for release in mid-December, as well as an ISO 20022 Technical Committee, Business Committee and Implementation and Transition working group webinar all scheduled for next week. I am pleased to report the first release of enhancements for Corporate Actions STP Phase 2 is scheduled to go live on 1 December. More on all of these topics below.

I have been on the road in October and November, presenting to over 1,500 company secretaries, investor relation professionals and legal advisers as part of a National Issuer roadshow. The [presentation](#) provided an opportunity to engage directly with issuers on the benefits of CHES replacement to their business on day 1, as well as longer term efficiencies and opportunities.

On 25 October, we held an Implementation & Transition working group webinar, which almost 200 of you listened to. The webinar allowed us to present a high level plan for the industry's transition and cutover to the new system. A copy of the slides and a link to the recording can be found [here](#). The team are now busy preparing for the next webinar later this month.

On 15 November, we 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 invites feedback from users and other stakeholders on the operation of the draft tranche 1 (of 3) rule amendments. Written submissions are requested by 17 January 2020.

The fourth drop of code into the Customer Development Environment (CDE), the largest release to date, was delivered to stakeholders on 5 November. The [release notes](#) detail the full scope of the code release, which include functionality for batch settlement.

I am also pleased to share with you a recent article and videos from a GlobalTrading Thought Leadership Roundtable entitled "[DLT: Beyond Settlement](#)." The BNP Paribas sponsored event took place on 3 October at our offices in Sydney where Peter Hiom, ASX Deputy CEO, and Fil Mackay, Head of Engineering – ANZ, at Digital Asset, participated in the discussions.

Below you'll find updates on our variety of stakeholder engagement forums, links to reference materials, upcoming milestones, as well as common questions we are asked, including some from the recent Implementation & Transition working group.

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



**Cliff Richards**

Executive General Manager  
Equity Post Trade



## Engagement Activities



### Connectivity & Integration Working Group

A Connectivity & Integration working group (C&I WG) was held on 20 November and included an overview on high availability, ISO message signing and an update on CDE 4 updates. The next C&I session will be held on 4 December.

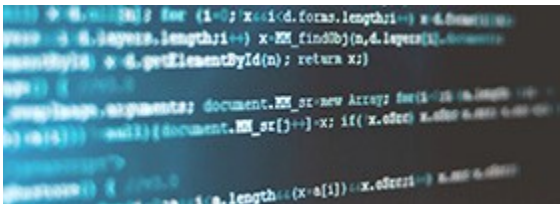
[Read more >](#)



### Implementation & Transition Working Group

The latest Implementation & Transition working group was held on 25 October. The webinar presented a timeline for industry transition and cutover activities. The next webinar will be on Friday 29 November.

[Read more >](#)



### Customer Development Environment Updates

Our fourth release of code (CDE 4) was released on 5 November, which introduced settlement instructions, batch settlement and other capabilities. ASX will publish the next update of the application in CDE by mid-December (CDE 5).



### Focus Groups

On 31 October, corporate actions discussions focused on aspects where members had requested clarification on previously proposed solutions. Focus Groups were also held on 12 November on the topic of Settlement, and a further Focus Group held on 14 November with Payment Providers on payment related topics.

[Read more >](#)



### ISO 20022 Technical Committee Meetings

The latest ISO 20022 Technical Committee meeting was held on 1 November with a focus on Dividend / Distribution Election, Distribution Advice Notification, Levy Notification and Payment Facilities. The next committee meeting will be held on 26 November.

[Read more >](#)



### 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.

[Read more >](#)

[Read more >](#)



### Corporate Actions STP

The Corporate Actions STP Phase 2 project is on track for its first release effective 1 December 2019.

[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 >](#)

## Technical Documentation



[What's new](#)



[Release notes](#)



[Forward release plan](#)

## Where to next?



[Upcoming activities](#)



[Project milestones](#)



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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 20 November 2019. The session provided details on:

- CDE 4 updates
- ISO 20022 Message signing for AMQP
- High Availability overview

The next C&I WG meeting will be held on **4 December 2019**, topics for discussion include a forward view of CDE 5, reporting changes and an update on the new, secure browser functional capabilities.

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 31 October, 12 November and 14 November respectively.

The Focus Group held on **31 October** was on the topic of the Corporate Actions. This was the final focus group in a series of Corporate Action sessions. Participants included all stakeholders that had rated related requirements 'high' in the Working Groups held in 2017 to elicit industry input on business requirements for the new system.

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

- Electronic DRP & BSP elections
- Bank account notifications
- Electronic acceptance for entitlement offers
- Electronic payment for entitlement offers

The Focus Group held on **12 November** was on the topic of the Settlement. Focus Group attendees included clearing and settlement participants.

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

- Early settlement
- Diary adjustments
- Settlement processing for unit failure

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

The Focus Group held on **14 November** was with the Equity Settlement Payment Provider Sub Committee.

The Focus Group discussed project updates and outcomes from bi-lateral payment provider consultations, which included:

- mFunds remaining in batch for Day 1
- payment facilities being enhanced with bank account details to facilitate gross line-by-line settlement (no change to batch payment facilities)
- corporate action related payments being aggregated to reduce payment volumes

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.

The last Focus Group for 2019 was held on **21 November 2019** on the topic of Demand Reporting. An update will be provided in next month's newsletter.

A list of previous meetings can be found [here](#).

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# Implementation & Transition Working Group



## Implementation & Transition Working Group

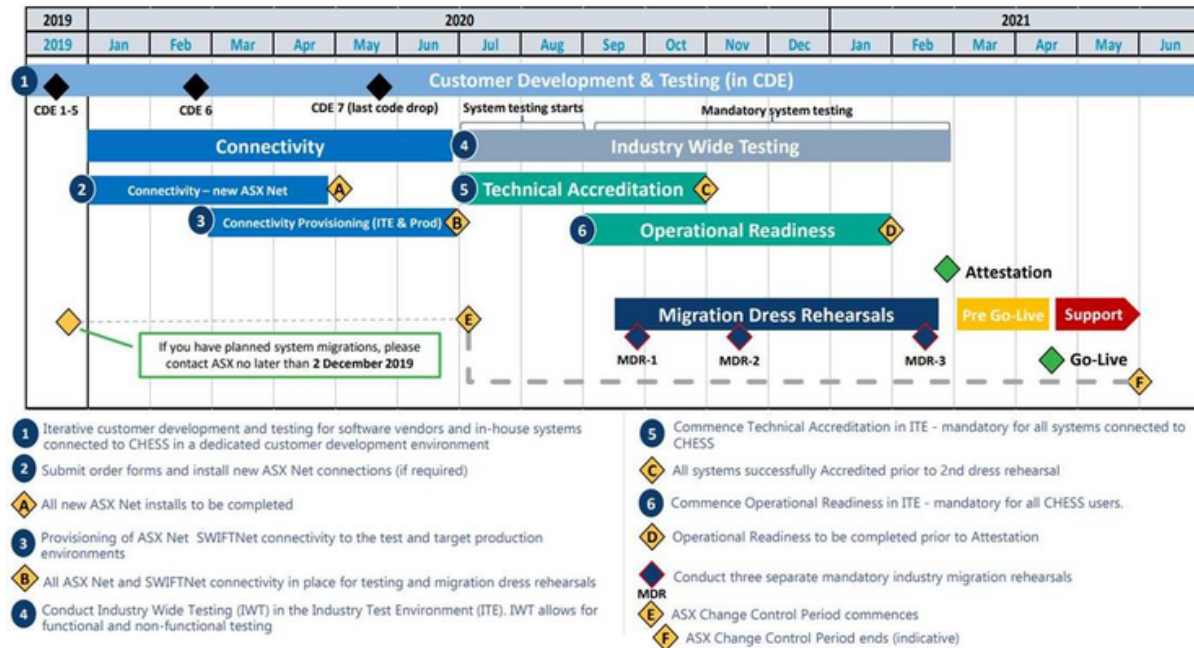
The latest Implementation & Transition working group (I&T WG) webinar was held on **Friday 25 October 2019**. The webinar aimed to provide greater transparency on the key activities and milestones up to the go-live of the project.

The ASX team presented a high level plan for the key activities to be performed by software vendors and CHES users to manage a successful industry transition and cutover to the new system. This plan included:

- A timeline for activities that need to be done in advance of Industry Wide Testing commencing, such as the provisioning of infrastructure and connectivity to ASX Net or SWIFTNet
- Proposed dates for three migration dress rehearsals
- Activities that make up industry wide testing
- A breakdown on the activities that make up technical accreditation and operational readiness
- The attestation ASX requires from all CHES users
- A change control period to appropriately plan for any changes and manage any associated risks.

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

As follow up to the webinar on 25 October inviting feedback on high level plan, ASX will also host a webinar in **December 2019** to respond to feedback and answer questions. Some [implementation & transition questions](#) have been published with this edition of the newsletter.



**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) no later than **2 December 2019**.

**Connectivity options:**

- All organisations that have ASX Net today, but do not currently use it to connect to CHES, must validate their network design as soon as possible to ensure CHES user host systems can connect to ASX Net. If your organisation requires a new ASX Net installation, please submit an order form to Adam Bradley, [adam.bradley@asx.com.au](mailto:adam.bradley@asx.com.au) and copy [CHESReplacement@asx.com.au](mailto:CHESReplacement@asx.com.au), by **2 December 2019**.

The third I&T working group webinar will be on **Friday 29 November 2019, 11am - 12pm**, and will focus on data migration over the cut-over weekend, including moving to the new account registration details, and activities CHES users can do to prepare for the cut-over.

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

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# ISO 2022 Technical Committee Meetings

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## ISO 2022 Technical Committee Meetings

The latest ISO 2022 Technical Committee meeting was held on **1 November 2019** in Sydney. The committee members were provided with an update on the Corporate Action Focus Group and the Investor Details Focus Group activities and an overview of the proposed ('to-be') ISO 2022 messages for Dividend / Distribution Election, Distribution Advice Notification, Levy Notification and Payment Facilities. ASX also provided a summary of member feedback on the previously published draft messages regarding mFund Application.

The next ISO 2022 Technical Committee meeting will be held on **26 November 2019** in Sydney. It will cover Settlement Focus Group, Demand Reporting Focus Group and Payments Focus Group activities and an overview of the proposed ('to-be') ISO 2022 messages for the business function of Demand Reporting, Corporate Actions (code change, diary adjustments) and Settlement Processing for Unit Failure. ASX will also provide a summary of member feedback on the previously published draft messages for Dividend/Distribution Election, Distribution Advice Notification, Levy Notification and Payment Facilities.

A list of previous meeting topics and materials as well as future ISO 2022 Technical Committee dates can be found [here](#).

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# Customer Development Environment Updates

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## Customer Development Environment Updates

Our fourth release of code (CDE 4) was released on 5 November, which introduced settlement instructions, batch settlement and other capabilities. ASX will publish the next update of the application in CDE by **mid-December** (CDE 5).

### CDE - Release 4

ASX recently refreshed CDE with a new code drop, Release 4 on 5 November 2019. The features associated with this code drop can be found in our Release 4 release notes [July 2019](#). New capabilities introduced included:

- Settlement Instructions
- Process for Batch Settlement
- Corporate Action workflow for Ex-Period, Basis of Movement and Notification for Dividend (DVCA) and Bonus Issue
- An Update for AMOs with FIX Specifications
- Workflows for Security Status Action Types.

With the [CDE4 code release notes](#) ASX provided details of updates to test data, testing tools (including a Trade ingest capability) as well as any known issues or observed behaviours in the development environment.

Within the Release Notes for CDE 4, 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 5

ASX will publish the next application code release in to CDE by **mid-December 2019** (CDE 5). New capabilities introduced include:

- Change of Controlling Participant
- Settlement Locks on HIN Holdings
- Issuer's Agent Transfer (Warrants)

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](#).
- Details of how to [request access](#) to the CDE are available in our Technical Documentation portal.

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# Corporate Actions STP

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## Corporate Actions STP

### Corporate Actions Straight Through Processing Phase 2 project

Separate to the CHES Replacement project, ASX has been running a project to enable straight through processing (STP) of corporate actions. The project is addressing some of the challenges to both the market and ASX with corporate actions processing, as well as progressing a number of business requirements which came out of the 2017/18 CHES Replacement consultation process. The scope of work for the project will be delivered in a number of releases, and the final release will go live prior to the go-live of the CHES Replacement system.

The first release for the project is scheduled for 30 November, effective 1 December 2019. The scope of the release is focused on enhancements to the existing online forms for the announcement by issuers of dividend/distribution, interest payment, consolidation, split and cash return of capital events, with the resulting production of ISO 20022 format notifications for these events remaining unchanged for this release. The release also introduces a set of forms either by online forms or MS word format forms to replace the current Appendix 3B – for the announcement of proposed issues or changes to capital (including corporate action events such as bonus, renounceable, non-renounceable, accelerated offers, non-priority offer and security purchase plans). Many of the changes included in the first release reflect changes that the ASX is making to its listing rules, effective 1 December 2019, subject to regulatory approval.

The STP project team have also been working with the CHES Replacement team and industry working group to develop the specifications 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.

More information is available in the July 2019 [CHES Replacement newsletter](#), and 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](#)") are being progressed by ASX outside of the CHES Replacement project, as Business-As-Usual activities, as neither are dependent on the new system. Subject to the necessary regulatory clearances, both business requirements are **targeted to be delivered prior to go-live** of the CHES Replacement system.

### Transfers to the CHES Subregister

On 30 August 2019, ASX released its [response to submissions received](#) on its July 2018 Consultation Paper "[Transfers to the CHES Subregister](#)."

ASX has also informally lodged with ASIC amendments to the ASX Settlement Operating Rules to implement this business requirement. These rules reflect the revised proposal described in ASX's response to submissions received.

At this stage, ASX is anticipating that these rules will become effective on or around mid-December 2019, subject to regulatory clearance.

### Corporate Actions - Takeover Offer

On 30 August 2019, ASX formally lodged with ASIC rule amendments seeking to enhance the existing process for acceptance of an off-market takeover offer (in respect of CHES holdings) and published a [market notice](#) providing a copy of the amendments.

On 23 September 2019, ASX issued a [market notice](#) confirming that these rules received regulatory clearance and became effective on Monday, 30 September 2019.

ASX will provide further updates on these BAU items in due course.

For further detail on these two business requirements, please refer to our [August newsletter](#).

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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 invites feedback from users and other stakeholders on the operation of the draft tranche 1 rule amendments, including any unintended consequences. Written submissions are requested by **17 January 2020**.

### Timeline Overview

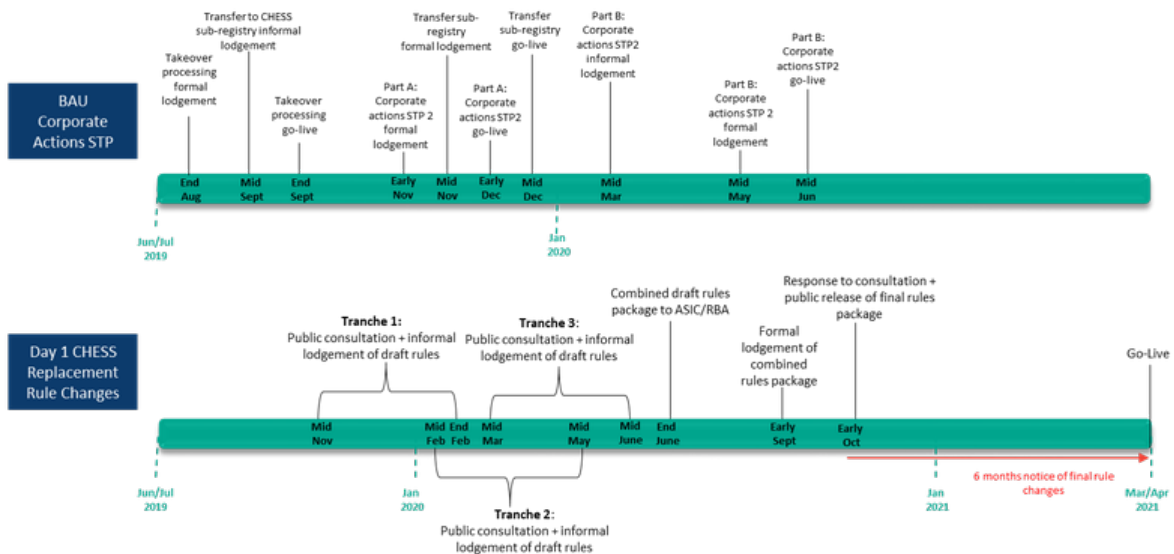
ASX has been engaging with regulators in relation to the rules and other relevant regulatory aspects that need to be addressed to support any new or changed services and functionality, including our indicative timeline.

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

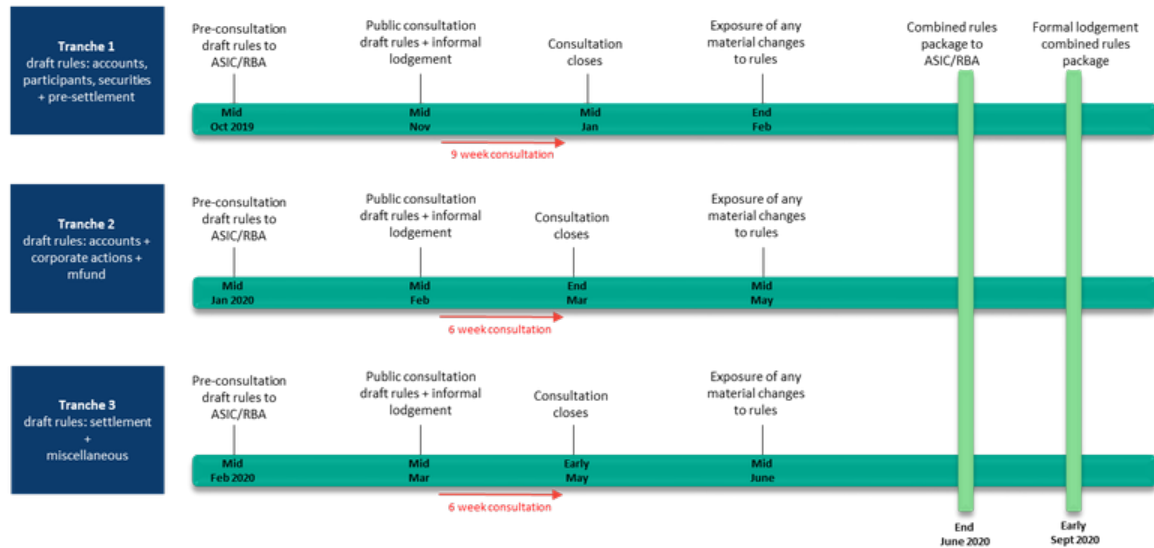
The timeline covers rule amendments required for Day 1 changes in the new system, including new business requirements, re-engineering of solutions for existing CHES functionality and the decommissioning of existing CHES functionality.

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 26 November 2019, 3pm to 5pm	ISO 20022 Technical Committee (refer <a href="#">here</a> )
Friday 29 November 2019, 11am to 12pm	Implementation & Transition working group (refer <a href="#">here</a> )
Friday 29 November 2019	Release 6 - technical documentation publication
Wednesday 4 December 2019, 2pm to 3.30pm, 2019	Connectivity & Integration (C&I) working group - Browser and reporting (refer <a href="#">here</a> )
Tuesday 10 December 2019, 3pm to 5pm	ISO 20022 Technical Committee (refer <a href="#">here</a> )
Mid December 2019	CDE 5 - code release (refer <a href="#">here</a> )

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

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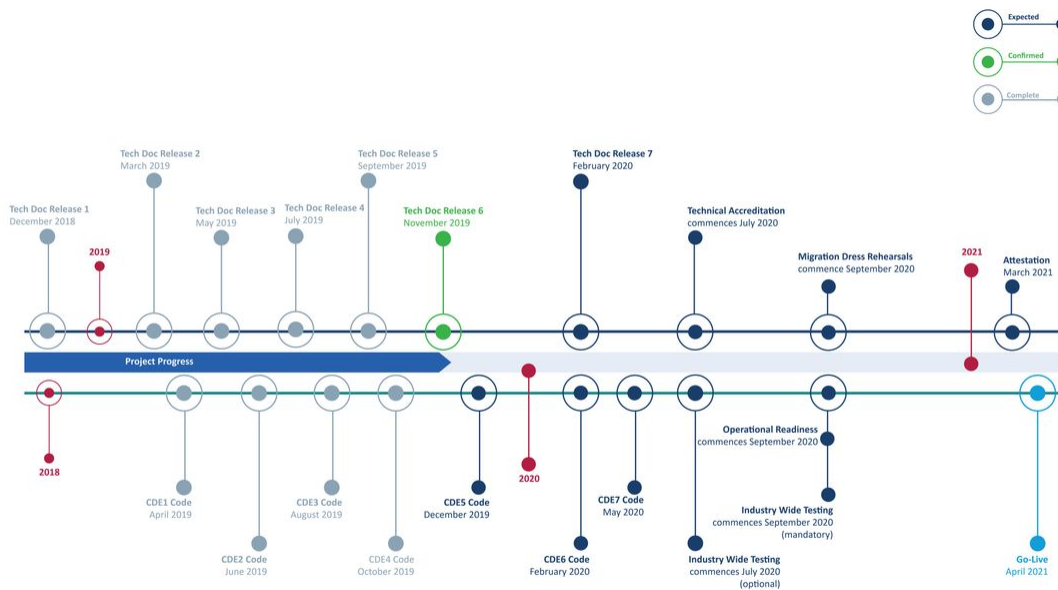
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# Project Milestones



## Project Milestones



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# Customer Frequently Asked Questions

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## Customer Frequently Asked Questions

We have established the CHESSE 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

#### ∨ What approach is being taken in minimising the data that needs to be migrated over the cut-over weekend?

A key activity to minimising the volume of data will be to reduce the number of dormant HINs in advance of the cut-over weekend.

Outside of that, all active state transactions will be migrated by the ASX. We do not expect any data to be migrated in client's host systems.

Data to be migrated from CHESSE over the cut-over weekend includes:

- All client HINs, holdings and sub-positions
- All open settlement obligations (including underlying trade executions)
- All in-flight transactions pending further analysis on unmatched DVP instructions which may be cancelled

ASX will provide further information to the market on account migration and in-flight transactions as part of the Implementation & Transition working group meetings.

#### ∨ Will there be a way of identifying the originating CHESSE transaction of a migrated transaction, and if so, what will that be?

ASX plans to migrate the CHESSE ID into the new platform in a deterministic way. So if it's X in the old system it'll be a derivative of that in the new system. Attributes such as settlement obligation ID's will be carried forward.

There are some 'corner cases' where a single trade ID in CHESSE today will need to be split into two in the new system, but again this will be deterministic, i.e. 000000111 becomes B000000111 or S000000111.

#### ∨ When will ASX provide details on account migration & migration of in-flight transactions?

The next Implementation & Transition working group to be held on 29 November 2019 will focus on account migration. A copy of the presentation slides and a recording of the presentation will be available on the CHESSE Replacement webpage.

The working premise is all in-flight transactions will be migrated. There may be a decision nearer the time that unmatched DVP instructions be cancelled but that level of detail has not been reviewed.

In-flight transactions will be a separate topic for the Implementation & Transition working group in Q1 2020.

#### ∨ When will more details about criteria for Technical Accreditation, Operational Readiness and Attestation be made available?

ASX is targeting to publish details by end Q1 2020, accompanied by any topics discussed in the Implementation & Transition working group meetings in early in 2020.

✓ **What are the key dates for start, finish Technical Accreditation, Operational Readiness and Attestation?**

Please refer to [Implementation & Transition working group page](#) of the Project Newsletter for details of the timetable presented at the 25 October working group meeting.

✓ **Will vendors will be required to complete Technical Accreditation?**

All vendors and those developing software that interface to CHESSE will need to accredit. ASX are looking to automate this phase as much as possible. There will also be periods where ASX will need to schedule specific testing activities and therefore specific periods may need to be booked in advance via our Customer Readiness team.

ASX will provide more details in Q1 2020.

✓ **How long will Migration Dress Rehearsals run for each time?**

The migration dress rehearsals are planned to mimic the cutover weekend. A detailed run sheet still needs to be prepared, but it is likely that the activities for participants will start Saturday morning and complete by Sunday evening. ASX mentioned in the webinar on 25 October 2019 that we are reviewing day 1 processing requirements for migration dress rehearsals.

Further information on this point will be provided in due course.

✓ **It's unclear which environment MDR will be performed in Prod or ITE?**

CHESSE users will need to be connected to the target production environment for migration dress rehearsals (MDR). This is the only activity that happens in the "target production" environment prior to go live. All other activities will be executed in the Industry Test Environment (ITE). Migration dress rehearsals will happen in parallel to other activities in ITE.

✓ **Will production data be used in migration dress rehearsals?**

Migration dress rehearsals will run on point in time data, likely to a copy of production data taken one or two weeks prior to the rehearsal weekend.

✓ **CDE - What are the details of the security uplift in CDE 4?**

Security enhancements were introduced as part of continued development of the Customer Development Environment (CDE). Mutual TLS was introduced with CDE 4 for two aspects - users connecting via AMQP and those using the Trade Ingest API.

For details of the uplift refer to the CDE 4 [code release notes](#). Any questions please contact our CHESSE Replacement [technical support team](#).

Mutual TLS for Ledger API connectivity is planned for a subsequent release and will be communicated to users.

✓ **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.

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 (BKRP)
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 [CHES Replacement Technical Documentation - Connectivity](#).

#### What is a Master Ingress Contract?

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

Each DAML party in the system is permitted 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 [CHES 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.getTransactionTrees()` 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 [CHES Replacement Technical Documentation - Connectivity](#).

#### What will be the most likely replacement for CHES PC?

**CHES PC and CHES Access**  
As part of the CHES Replacement project ASX will be decommissioning both the CHES PC and CHES Access interface products on go-live. Users of these products will need to select a new method of how they to connect to CHES Replacement.

**CHES PC**  
CHES PC supports the manual entry of transactions; additionally it can be used as a message gateway using a scheduled file upload/download mechanism.

**CHES Access**  
CHES Access provides a message gateway allowing host systems to connect directly with CHES Access to send and receive transactions.

**Background**  
Both products were developed by ASX to support the proprietary nature of CHES message formats and protocol.

CHES Replacement adopts global and simplified standards using ISO 20022 XML message formats and introduces new connection channels using Node integration, AMQP and SWIFTNet.

**New Browser**  
ASX will be introducing a new secure browser for CHES Replacement intended for low volume usage allowing users the ability to enter messages in the same way as they can with CHES PC.

The 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.

Details can be found in the CHES Replacement consultation paper. Refer to our [website](#) for details.

#### Stakeholder Engagement - Can I join any of the Working Groups or Committees?

ASX has given careful consideration on how best to engage with industry to elicit the feedback required from all stakeholder groups to develop and implement the system that will replace CHES. To date, ASX has adopted an approach

involving both formal broad-based public consultation, and a range of committee and working group forums. These stakeholder forums are designed to share with, and take feedback from, a cross-section of the market on particular topics.

- Focus Groups are targeted sessions where membership is by invitation, which will vary depending on the topic at hand and particular expertise required.
- ISO 20022 Technical Committee is by invitation.
- Working Groups are usually presented with online web and teleconference access.

Refer to the [Stakeholder Engagement](#) page on the CHESSE Replacement website for details of all engagement forums.

Please contact [CHESSEReplacement@asx.com.au](mailto:CHESSEReplacement@asx.com.au) with enquiries about any of the forums.

Additional questions about CHESSE Replacement can be found at the following links:

- [General CHESSE 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>
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