

Program Newsletter



[CHES Replacement homepage](#)

CHES Replacement Project Update

July 2020

On 30 June, we released our consultation paper on the CHES Replacement [Revised Implementation Timetable](#). The paper sets out key project activities and milestones including system development and testing, user testing, technical accreditation, operational readiness, and operating rule amendments. The revised timetable has a new go-live date of April 2022, 12 months beyond the original target go-live. The consultation was open for four weeks and ASX is requesting all CHES users respond by today, 28 July 2020 on their ability to meet the revised implementation schedule.

Recent stakeholder engagement activities have included the Implementation and Transition working group meeting on 13 July 2020, where ASX hosted a 90 minute webinar on the revised timeline and to provide an opportunity for CHES users to ask questions. ASX have since published the list of [questions and answers](#) to our webpage and documentation [portal](#).

To continue our engagement with listed entities, on 23 June 2020 we published a factsheet on what CHES replacement means for issuers. The [issuer factsheet](#) was sent to company secretaries, CEOs, CFOs and Investor Relations contacts for all listed entities. It provided listed entities with key details and steps they can take to learn more.

ASX published a similar factsheet on 27 July 2020, from the perspective of market participants including the benefits of the new CHES system. The [participant factsheet](#) was sent to all clearing and settlement participants and product issuer settlement participants (PISPs).

Other recent activity includes the second (of three) major releases for the Corporate Actions STP Phase 2 project. This release delivered the revised and new set of ISO 20022 corporate action notification messages to production. Work has also commenced on the third and final release now scheduled for March 2021.

I am also pleased to report that development on the CHES User Interface (UI) - the CHES PC desktop application replacement - continues to progress. The foundation 'base' build is finished which includes the ability to submit and query ISO 20022 messages, view accounts, holdings and settlement instructions. A demonstration of the CHES UI to the Implementation and Transition working group members is also scheduled for this week, Wednesday 29 July 2020.

As always, if you have any feedback on the project or the content of this newsletter, please contact the project team at CHES Replacement@asx.com.au.



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 background.

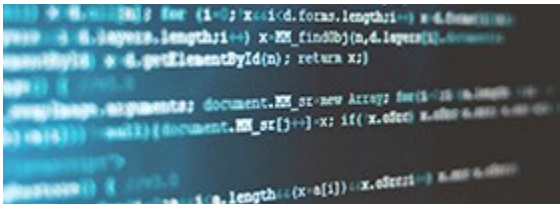
Engagement Activities



Connectivity & Integration Working Group

The Connectivity & Integration meeting held on 13 May is likely to be the last, with the working group having now completed its stated objectives. The last meeting included an overview of CDE 7 along with a re-cap on ISO 2022 message signing and Ledger API authentication.

[Read more >](#)



Customer Development Environment Updates

Our seventh release of code (CDE 7) was released on 29 May and work continues on remaining system development. ASX will publish our next drop of code (CDE 8) by end of September

[Read more >](#)



Implementation & Transition Working Group

The last I&T working group webinar was held on 13 July. The webinar focused on the consultation paper ASX released on 30 June on a revised implementation timeline. The next I&T WG webinar will be on 29 July and will focus on a demonstration of the CHES User Interface and an update on Corporate Actions STP.

[Read more >](#)



Rule Amendment & Public Consultation Timeline

ASX is currently considering the feedback received on the tranche 2 draft rule amendment consultation. Consultation on the tranche 3 draft rule amendments and on a consolidated rules package (across the three tranches) is proposed for early November 2020 with a 15 week consultation period, subject to feedback received through the consultation on the new CHES replacement timetable released on 30 June 2020.

[Read more >](#)



Corporate Actions STP

The Corporate Actions STP Phase 2 project successfully delivers its second release.

[Read more >](#)

Customer Frequently Asked Questions

We have established the CHES Replacement mailbox and 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](#)



[Useful weblinks](#)

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Connectivity & Integration Working Group



Connectivity & Integration Working Group

The Connectivity & Integration meeting held on 13 May 2020 is likely to be the last, with the working group having now completed its stated objectives. The last meeting included an overview of CDE 7 along with a re-cap on ISO 20022 message signing and Ledger API authentication. Additional sessions will be convened if required or requested by stakeholders.

All Connectivity and Integration working group materials will continue to be made available on the CHES replacement Stakeholder Engagement website.

A list of upcoming project activities can be read [here](#).

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Implementation & Transition Working Group



Implementation & Transition Working Group

Implementation & Transition Working Group

The last Implementation & Transition working group (I&T WG) webinar was held on **13 July 2020**. The webinar focused on the consultation paper ASX released on 30 June 2020 on a revised implementation timeline, and was split into two parts. Firstly, ASX spoke to the key aspects of the consultation paper, including the timeline, and the second part of the webinar was dedicated to questions and answers from attendees. For further information on this webinar, the presentation slides, webinar recording, and answers to all relevant questions submitted in advance or during the webinar are published on the CHES Replacement website.

The next I&T WG webinar will be on **29 July 2020** and will focus on a demonstration of the CHES User Interface and an update on Corporate Actions STP. Invitations have already been sent to working group members.

Materials from previous I&T WG meetings can be accessed via the CHES Replacement Stakeholder Engagement website.

ITE Connectivity

ASX will use the Industry Test Environment (ITE) for testing during the implementation phase of the project. ITE is split into two separate environments:

- ITE 1 is a new dedicated environment that is being made available to software providers only (vendors and in-house developers).
- ITE 2 will be made available to all CHES users. Details of how to connect and application forms for ITE 2 will be published in due course.

The timing for each of these environments is set out in ASX's 30 June Consultation Paper on a revised implementation timetable. Subject to feedback from the consultation and confirmation by ASX, ITE 1 will open from December 2020 and ITE2 will open from April 2021.

ITE 1 Application Forms

ASX has published ITE 1 application details in the Technical Documentation portal. Software developers are encouraged to review and submit these forms with sufficient time for connectivity to be established in time for the start of ITE 1 from December 2020.

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 transitions@asx.com.au

Materials from previous I&T WG meetings can be accessed here on the CHES Replacement Stakeholder Engagement website.

A list of upcoming project activities can be read [here](#).

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Customer Development Environment Updates



Customer Development Environment Updates

Our seventh release of code (CDE 7) was released on 29 May and work continues on remaining system development. Details of recent code fixes are listed below.

CDE - Release 7

ASX published the latest application code release in to CDE on **Friday 29 May 2020** (CDE 7), code release notes are [here](#). Features associated with this code drop were previously published in our documentation release notes - [December 2019](#), [May 2019](#) and [February 2020](#).

New capabilities introduced with this drop included:

- Batch Settlement - settlement failure levey workflow
- Controlling Participant - ability to cancel an account
- Account Management - ability to lock and unlock accounts due to reasons such as deceased or bankrupt holder
- Issuer (Registry) Reporting - ability for Issuer (Registries) to receive reports on a daily basis from the CSP.

And since the release of CDE 6 customers are able to use ISO message signing ([details here](#)) and now from CDE 7 mutual TLS secure connectivity direct to the Ledger is available ([details here](#)).

In addition to the CDE 7 release notes, ASX also has published the following information and updates which we would like to highlight:

- What's New 29 June - including amended Known Issues & Limitations to clarify the scenarios that two known defects with CDE 7 occur.
- What's New 7 July - updates include clarifications to the Account and Holder Locking and Holding Transfer process pages, and minor updates to ISO 20022 message signing documentation to provide content clarification.
- What's New 17 July - including clarifications to the Investor Data and Reporting, Broadcast Notification, Projected Funds Obligation and Batch Settlement - Movement of Units functional specification pages. Updates to the Known Issues & Limitations list and a new FAQ has been included detailing the CSV file format accepted by the CSP (for those using self-service testing tools in CDE).

CDE - Release 8

ASX will publish the next code release to CDE by **mid September 2020**.

New capabilities introduced with this drop are indicated in our [Forward Release Plan](#) on our Technical Documentation portal with previous and upcoming releases.

Technical Documentation

Since the last project update ASX has continued to publish documentation to the market to support development and testing. The latest updates include:

- 30 June 2020 - [Documentation release](#) included new operational procedures and guidelines (APGs) and updates to previously published APGs, and functional documentation for Projected Funds Obligation Process and Default Management.

Further APG documentation and accreditation details will continue to be published regularly.

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.

A list of upcoming project activities can be read [here](#).

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Rule Amendment & Public Consultation Timeline



Rule Amendment & Public Consultation Timeline

Market Consultation

On 22 May ASX released its response to the tranche 1 draft rule amendment consultation. ASX is currently considering the feedback received on the tranche 2 draft rule amendment consultation which closed on 29 May 2020. Consultation on the tranche 3 draft rule amendments and on a consolidated rules package (across the three tranches) is proposed for early November 2020 with a 15 week consultation period, subject to feedback received through the consultation on the new CHES replacement timetable released on 30 June 2020.

Rule Amendment and Public Consultation Timeline

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 for the new system, including our consultation process on the rule amendments involving three tranches of amendments.

The **first** tranche of operating rule amendments was released for public consultation on 15 November 2019, with the period for feedback closing on 17 January 2020. The content related to accounts, participants, securities and pre-settlement aspects for Day 1 CHES replacement system functionality.

On 22 May 2020 ASX released its response to consultation feedback received on the tranche 1 draft rule amendments. The response to consultation feedback contains:

- a summary of the feedback received in stakeholder submissions;
- ASX's response to such feedback; and
- the draft rule changes made to the ASX Settlement Operating Rules and Procedures and ASX Clear Operating Rules and Procedures, which take into account feedback received.

ASX received a total of 12 submissions from a range of stakeholders including participants, registries, industry bodies and vendors.

The **second** tranche of operating rule amendments was released for public consultation on 21 February 2020, with the period for feedback closing on **29 May 2020** (extended from 3 April). The content related to corporate actions, mFund and RTGS payment aspects for 'Day 1' implementation of CHES replacement system functionality. RTGS will support payments for corporate actions involving entitlement acceptances as well as payments for bilateral demand settlement instructions (addressed in tranche 1 rule amendments). ASX is currently considering the feedback received on the tranche 2 rule amendments and proposes to release its response to consultation feedback received on those rule amendments in mid-September 2020.

ASX suspended consultation on the **third** tranche of operating rule amendments until after the consultation on the new CHES replacement timetable released on 30 June 2020, which has sought feedback from users on the timetable for the revised process for further consultation on the rule amendments. That proposes that the tranche 3 rule amendments and a consolidated rules package across all the rule amendments for the new system (as covered by the three tranches) be incorporated into a further public consultation ASX intends to undertake commencing early November 2020, with a 15 week consultation period to apply for providing feedback. Further information on the revised public consultation process referred to above is set out in section 5 of the consultation on the new CHES replacement timetable released on 30 June 2020.

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Corporate Actions STP

Corporate Actions Straight Through Processing (STP) Phase 2 project

The STP project team successfully implemented the project's second release on 18 July 2020. This release includes

- the availability of the ISO 20022 notification service for all in scope corporate actions events, available via SWIFT or FTP for subscribers. The same notifications will be consumed by CHES Replacement.
- a number of enhancements to the online or word forms used by issuers to announce certain corporate action events.
- the introduction of an ISIN to represent the entitlement in a non-renounceable offer. The ISIN and security details are available in the ISO 20022 notification and ReferencePoint Master List. This was a new business requirement from the CHES Replacement working group consultation agreed for delivery by the STP project.
- enhancement to the Dividend online form and ISO 20022 notification to include additional tax information (based on ATO Annual Investment Income Report (AIIR) fields), as agreed with the Distributions sub-group of the STP industry working group.

This release is a significant milestone for the project, working in collaboration with industry stakeholders and the CHES Replacement project team.

The team are now focused on delivering the project's remaining scope of work with a target release date of March 2021. The work includes upgrading and introducing additional online forms for the use of issuers to announce certain events, with full straight through processing of that event information from the issuer announcement through to ASX reference products including the ISO 20022 real time corporate actions notification service.

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

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Customer Frequently Asked Questions



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

▼ [When will stakeholders be able to provide feedback on the implementation timeline?](#)

On 30 June, ASX released our consultation paper on the CHES Replacement [Revised Implementation Timetable](#). The paper sets out key project activities and milestones including system development and testing, user testing, technical accreditation, operational readiness, and operating rule amendments. The revised timetable has a new go-live date of April 2022, 12 months beyond the original target go-live. The consultation was open for four weeks and ASX is requesting all CHES users respond by 28 July 2020 on their ability to meet the revised implementation schedule.

▼ [Is a software vendor developing a solution to support CHES Replacement required to undergo separate Technical Accreditation tests for each clearing and settlement participant client?](#)

A software vendor only needs to accredit software once, so long as the same version of software is used by multiple clients.

Details on Technical Accreditation can be found in our Technical Documentation portal.

▼ [Will message content be verified by ASX as part of technical accreditation or will this form part of operational readiness?](#)

Yes, message content will be verified as a part of the messaging component of the Technical Accreditation activity.

Details on Messaging Accreditation can be found in our Technical Documentation portal.

▼ [When will test packs and test scripts be available?](#)

The first release of message test scenarios for technical accreditation was made available from April 2020. The first release will be on Account Management. Additional message test scenarios will be progressively released in tranches.

Details on Messaging Accreditation can be found in our Technical Documentation portal.

▼ [Further 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.

Connectivity

▼ [Do software vendors, and CHES Users more broadly, need to have CHES Browser connectivity?](#)

CHES Users don't need to have access via the new CHES Browser; it is an optional connectivity channel that replaces CHES PC software.

Product Issuer Settlement Participants (PISPs) are heavy users of CHES PC and ASX anticipates this cohort to use the browser. Another potential cohort is an organisation that wants to use the browser as a supplementary connectivity channel for low volume corner cases.

▼ [When will ASX publish documentation on the ASX Customer Identity Access Management system?](#)

All access channels will be authenticated by ASX, for AMQP users this will be via ISO 20022 message signing and for Ledger API users via Token Authentication. ASX will provide details of Token Authentication in the June publication to the 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.

Functionality & Specifications

▼ [Where are details on how the Account locking and unlocking process will work?](#)

The functional process and specification for Account and Holder Locking and Unlocking are published in our Technical Documentation portal. Plus we have some additional information here - [FAQs - Account Locking & Unlocking](#).

▼ [Is there a simple guide how the old EIS message formats map to the new ISO standards?](#)

As part of our ISO 20022 Messaging technical specifications that have been published, ASX has provided a useful cross reference page to help users relate from EIS to the new standard. Please see the following page - [ISO 20022 Messaging - TM - EIS to ISO 20022 Cross Reference Guide](#).

▼ [Connectivity - ISO message signing](#)

▼ [Which access channels require ISO message signing?](#)

Customers wishing to access the CHESS Replacement system via AMQP will be required to use ISO message signing for production. During the CDE development phase customers can opt-in to use ISO message signing.

Further details can be found in the Technical Documentation [Connectivity - Message Connectivity](#) pages.

▼ [When will ISO message signing be available?](#)

ISO message signing will be available from CDE 6 (from Tuesday 3 March 2020) and customers can 'opt in' to use it within CDE. [Release notes](#) will be published to accompany CDE 6. To opt-in to ISO Messaging signing in CDE, [click here](#) to send an email to the ASX CTS team.

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

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

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Upcoming Activities



Upcoming Activities

Date	Activity
Tuesday 28 July 2020, close of business	Consultation on implementation timetable closes (refer here)
Wednesday 29 July 2020, 2pm-3pm	Implementation & Transition working group (refer here)
End July 2020	Documentation publication - further details released on CHES Replacement functional and technical specifications
Wednesday 26 August 2020, 2pm-3pm	Implementation & Transition working group (refer here)
September 2020	CDE 8 code drop (refer to Forward Release Plan)
Mid September 2020	Publication of ASX response to consultation feedback received on Tranche 2 rule amendments
November 2020	Public Consultation - operating rule amendments - Tranche 3 consultation period begins (refer here)
November 2020	CDE 9 code drop (refer to Forward Release Plan)
December 2020, <i>subject to consultation feedback</i>	ITE 1 (Industry Test Environment) opens for software developers

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Useful weblinks



Useful weblinks

ASX CHES Replacement communications
(including past newsletters):

<https://www.asx.com.au/services/chessreplacement-communications.htm>

Consultation Paper on the CHES Replacement Revised
Implementation Timetable

<http://www2.asx.com.au/content/dam/asx/markets/clearing-and-settlement-services/chess-replacement-consultation-paper-revised-implementation-timetable.pdf>

CHES Replacement - Tranche 2 Rule Amendments

Consultation Paper - February 2020

CHES Replacement - Tranche 1 Rule Amendments

Consultation Paper - November 2019

ASX CHES Replacement System Access Pricing

Response to Tranche 1 Rule Amendments Consultation Paper - May 2020

Toronto Centre Podcast: Introducing the Newest Technology to
Capital Markets: The Industry's Perspective

Pricing Letter - September 2019

Podcast - July 2019

ASX CHES Replacement website:

<https://www.asx.com.au/services/chess-replacement.htm>

ASX Technical Documentation:

<https://asxchessreplacement.atlassian.net/wiki/spaces/CSP/overview>

Digital Asset – DAML
(including requesting the SDK):

<https://daml.com/>

ASX Response to consultation feedback:

<https://www.asx.com.au/documents/public-consultations/response-to-chess-replacement-consultation-feedback.pdf>

ASX 2018 Consultation Paper:

<https://www.asx.com.au/documents/public-consultations/chess-replacement-new-scope-and-implementation-plan.pdf>

Recent ASX Webinars:

<https://www.asx.com.au/services/webinar-archive.htm>

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