



CHES Replacement Project Update

September 2020

On 24 September, ASX released its [response to feedback](#) on the Tranche 2 draft rule amendment consultation. ASX received 11 submissions from a range of stakeholders including participants, share registries, payment providers, an industry body and an approved listing market operator. The response to consultation feedback released yesterday contains a summary of feedback received; ASX's response to the feedback; and the draft rule changes made to the ASX Settlement Operating Rules and Procedures, which take into account the feedback received.

In a few weeks, ASX will be rolling out its new website, which includes new and improved web pages for CHES replacement. The new CHES replacement pages will have a redesigned look and feel, designed to be easier to navigate and find what you need. The team will provide an overview of the changes and key information sources to help you keep up to date with the project in our next [Implementation & Transition working group](#) webinar.

The team have also been working with stakeholders on a solution to provide an electronic CHES holding statement option to replace paper statements in advance of CHES replacement go-live. This will give CHES broker sponsored investors the option to retrieve digital CHES statements with notifications sent via email targeted to go live by the end of this year. The team will also provide more information on these changes in the next Implementation & Transition working group webinar.

On 14 September, we released the eighth drop of code (CDE 8) into our customer development environment. This included new features for holding administration locking and unlocking, new corporate action workflows, the payment provider authorisation for RTGS payments workflow for bilateral demand settlement instructions as well as new issuer (registry) end of day reports. The full contents of this release can be found below or in the [CDE 8 release notes](#).

At the end of this month we will updating our documentation portal to include new operational procedures and guidelines and updates to the CHES UI documentation on user management.

Finally, we continue to work through the feedback from the consultation on CHES users' ability to meet the revised implementation timetable.

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

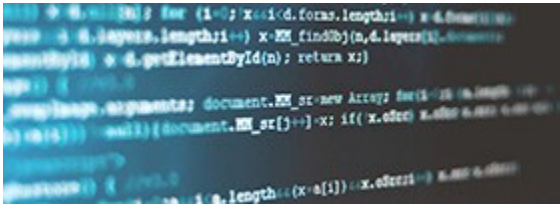


Documentation Spotlight

This section provides a spotlight on the information presented in the ASX CHES Replacement documentation portal.

This month highlights recent documentation updates and details of ASX operational procedures and guidelines being progressively published.

[Read more >](#)



Customer Development Environment Updates

Our eighth code drop (CDE 8) was released on 14 September and work continues on remaining system development.

ASX expect to publish our next drop of code (CDE 9) by end November 2020.

[Read more >](#)



Customer Frequently Asked Questions



Implementation & Transition Working Group

The last I&T working group webinar was held on 26 August. This webinar focused on inflight transactions, migration of account holders & the ASX conversion tool. The next I&T WG webinar will be on 7 October and will focus on electronic CHES holding statements.

[Read more >](#)



Rule Amendment & Public Consultation Timeline

On 24 September 2020, ASX released its response to feedback received on the tranche 2 draft rule amendment consultation.

[Read more >](#)

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](#)



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Documentation Spotlight

This section provides a spotlight on the information presented in the ASX CHES Replacement documentation portal.

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Recently published content

Documentation releases

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

CDE 8 code release

11 September 2020 - Code release notes (CDE8) included functionality for:

- holding administration locks, code changes & class mergers, diary adjustments, isolate counterparty
- CDE Drop 8 includes an update to the Bilateral Demand Settlement Instruction workflow that now incorporates the Payment Provider Authorisation process
- CDE Drop 8 includes the following Issuer (Registry) EOD reports. These workflows include the End of Overnight Reporting Notification:
 - Cum Entitlement Balance (CEBL);
 - Holding Movement (HMVT); and
 - Cum Entitlement Movement (CEMV).
- Additionally, a sample of the AMO Security Details Report (AMOS) has been published as part of the AMO Overview.
- CDE 8 release notes were supported by the What's New 11 September 2020 update.
- **17 September 2020** - a minor update was added to the CDE 8 release note - to assist software provider testing of ISO message pagination the number of records included in the Netting Obligation Report (NOR) (sett_102) has been reduced from 100 to 10, software providers therefore can test pagination with a reduced number of trades. This value has been lowered in CDE8 for the purpose of testing, the number of trades which will be included in the production environment will be defined at a later date.
- **21 September 2020** - a minor update was added to the CDE 8 release note - on CDE reset, corporate actions with dates in the past will be removed from seeding to avoid incomplete corporate action lifecycles.

August 2020 documentation release

At the end of August 2020 the following information was published as part of the ongoing documentation and information release:

- New additions of ASX Settlement Procedure Guidelines (APG):
 - Section 15 - Primary market facility;
 - Section 16 - CHES depositary interests;
 - Section 17 - Exchange traded funds: in-specie applications and redemptions;
 - Section 18 - Warrants; and
 - Section 19 - Exchange traded Australian Government Bonds.
- Updated functional specifications, including:
 - Default Management;
 - Entitlement Elections;
 - mFunds;
 - Takeovers and Buy-backs; and
 - Reporting.

- New and updated content supporting broader Technical Accreditation information:
 - Message Accreditation scripts for Corporate Actions - day 1 scope.

Coming next

Further APG documentation and accreditation details will continue to be published regularly. Our next documentation release is expected at the end of September 2020.

Other topics relating to CHES Replacement documentation can be found at the following links:

- Documentation Portal - home page
- ASX Settlement Procedures & Guidelines
- Documentation Release Notes
- Documentation What's New updates
- Documentation FAQs

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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 **26 August 2020**. This webinar focused on the outstanding considerations for inflight transactions and the migration of accounts and holders. The webinar also included more details on the ASX conversion tool for registration details.

Further to the webinar at the start of this year on inflight transactions, working group members were provided with a re-cap on the fundamentals of data migration and the data elements that will be migrated. The session then outlined the proposed migration approach for those inflight transactions not previously covered, which included collateral requests, takeover acceptances, failed settlement obligations and mFund transactions. ASX is targeting to provide documentation on managing inflight transactions by end October 2020.

Working group members were then provided an update on outstanding account and holder migration considerations. This included the requirements on CHES users to remediate non-compliant accounts prior to the cut-over weekend. Further details were also provided on the ASX conversion tool for registration details which will help facilitate the conversion by converting registration details to the new format so that CHES users can use the output files to load into their back office systems. The tool will also identify non-compliant registration details. ASX outlined the functional and non-functional requirements for the registration details tool, the format of input and output files, and a list of warning and errors where registration details do not meet the validation rules.

If you missed the webinar, or would like to listen to it again, the presentation slides, webinar recording, and answers to all relevant questions are published on the CHES Replacement website.

The next I&T WG webinar will be on Wednesday, **7 October 2020** and will an update on electronic CHES holding statements.

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

REMINDER: For your consideration in planning your implementation

For your consideration in planning your implementation.

CHES Changes:

- If you are planning any migrations or other significant changes to your CHES configuration please contact the Customer Readiness team at participant.transitions@asx.com.au

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

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Customer Development Environment Updates



Customer Development Environment Updates

ASX's customer development environment (CDE) follows the development cycle of the CHES Replacement project. Functionality, security features and test capabilities will be progressively added to the environment during the life of the project in iterative cycles. Details and objectives of CDE and how to access are provided in our technical documentation portal [here](#).

Our eighth code drop (CDE 8) was released on 14 September 2020 and work continues on remaining system development. Details of recent code updates and fixes are listed below.

CDE - Release 8

ASX published the latest application code release in to CDE on **Monday 14 September 2020** (CDE 8), code release notes are [here](#).

Capabilities introduced with this drop included:

- Holding Administration Locking and Unlocking
- Corporate Action workflows for;
 - Call Payment (Partly Paid Securities)
 - Code Change
 - Class Merger, and
 - Diary Adjustments.
- Isolate Counterparty
- Cash market margin workflow for Change Margin Settlement Amount
- Payment provider authorisation for RTGS payments workflow for Bilateral Demand Settlement Instructions
- Reporting updates:
 - A sample of the AMO Security Details Report (AMOS) has been published as part of the AMO Overview.
 - Issuer (Registry) EOD reports:
 - Cum Entitlement Balance (CEBL);
 - Holding Movement (HMVT); and
 - Cum Entitlement Movement (CEMV).

(These workflows include the End of Overnight Reporting Notification.)

CDE 8 breaking change

CDE 8 includes a breaking change discussed in earlier ISO 20022 Technical Committees to include the Business Date in the Business Application Header (BAH). As such, the BAH version must be adjusted from v1 to v2 to use the new ISO schema. Details have been provided in the [What's New 11 September 2020](#) article.

Further details about recent publications are provided in the [Documentation Spotlight](#) update.

CDE - Release 9

ASX expect to publish the next code release to CDE by end **November 2020**.

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

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 24 September 2020, ASX released its response to feedback received on the tranche 2 draft rule amendment consultation.

This follows the release on 22 May 2020 of ASX's response to feedback received on the tranche 1 draft rule amendment consultation.

ASX proposes to undertake a further rules consultation incorporating both the tranche 3 draft rule amendments and a consolidated rules package (across the three tranches). ASX will provide an update on the timing for this further rules consultation as part of its response to consultation feedback on the consultation paper on the new CHES replacement timetable which it 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.

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

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.

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 supports payments for corporate actions involving entitlement acceptances as well as payments for bilateral demand settlement instructions (addressed in tranche 1 rule amendments).

ASX received a total of 11 submissions from a range of stakeholders including participants, registries, payment providers, an industry body and an approved listing market operator.

On 24 September 2020, ASX released its response to consultation feedback received on the tranche 2 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, which take into account feedback received.

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. That consultation paper sought feedback from users on the timing for its proposed further rules consultation covering both 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), contemplated to commence early November 2020 with a 15 week consultation period (refer to section 5 of that paper).

The market will be updated on the timing for the further rules consultation in ASX's response to consultation feedback on the revised implementation timeline.

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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
Friday 6 November, 1pm-2.30pm	Implementation & Transition working group (refer here)
End November 2020	CDE 9 code drop (refer to Forward Release Plan)
December 2020	Electronic CHESS Holding Statements
December 2020	Implementation & Transition working group (refer here)

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Useful weblinks



Useful weblinks

ASX CHES Replacement website	https://www2.asx.com.au/markets/clearing-and-settlement-services/chess-replacement
ASX CHES Replacement communications (including past newsletters)	https://www2.asx.com.au/markets/clearing-and-settlement-services/chess-replacement/chess-replacement-resources/stakeholder-communications
ASX CHES Replacement resources	https://www2.asx.com.au/markets/clearing-and-settlement-services/chess-replacement/chess-replacement-resources
ASX CHES Replacement engagement forums	https://www2.asx.com.au/markets/clearing-and-settlement-services/chess-replacement/stakeholder-engagement/engagement-forums
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
ASX response to consultation feedback: CHES Replacement Confirmed Implementation Timetable	http://www2.asx.com.au/content/dam/asx/documents/unlinked-docs/chess-replacement-project-response-to-consultation-revised-implementation-timeline.pdf
CHES Replacement - Tranche 2 Rule Amendments	Consultation Paper - February 2020 Response to Tranche 2 Rule Amendments Consultation Paper - Sept 2020
CHES Replacement - Tranche 1 Rule Amendments	Consultation Paper - November 2019 Response to Tranche 1 Rule Amendments Consultation Paper - May 2020
ASX CHES Replacement System Access Pricing	Pricing Letter - September 2019
Toronto Centre Podcast: Introducing the Newest Technology to Capital Markets: The Industry's Perspective	Podcast - July 2019
ASX Technical Documentation:	https://asxchessreplacement.atlassian.net/wiki/spaces/CSP/overview
CHES Replacement fact sheets: NEW	Fact sheet - for participants Fact sheet - for issuers
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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