



## CHES Replacement Project Update

### October 2021

Over the course of September and the first half of October we continued to make meaningful progress on the CHES Replacement project, including:

- The last functional code release before ITE1 opens, CDE 10, was made available on 27 September 2021, providing software providers all workflows to progress their development delivery. This release delivered the new features for netting and settlement redesign changes and DRP/BSP elections and enquiries and is the last release of code into CDE before ITE1 opens in late November 2021.
- A new working group was convened for software providers and for those organisations that are developing systems to interface with the new CHES replacement system. Software provider readiness is the next major industry test phase which will access a new ITE1 environment, and the working group will focus on topics that will help ensure readiness for the mandatory technical accreditation phase commencing from late April 2022.
- The implementation and transition working group focused on the third tranche of operating rule amendments and the consolidated rule set, including how to navigate the content.
- New documentation was published including the Guide for ITE1 Testing Services and Failover and Recover Guide for ITE1 testing services, and the Failover and Recovery Guide.

Details on all of this are provided in the 'find out more' link below.

Interestingly, I also recently participated in Global Trading's roundtable webinar on post trade digital transformation which covered many areas topical to the CHES Replacement project. You can read more about this [here](#).

And talking about post trade digital transformation, it was also exciting to see the announcement earlier this month that Deutsche Boerse, which operates the Frankfurt Stock Exchange and Clearstream, will be using the same smart contracting language that we are using for CHES Replacement, Daml, for its new digital post-trade platform. You can read more about this in Digital Asset's [media release](#).

Focus across the project is on readiness for the opening of our next test environment (ITE1) and we will provide more details on this next time.

I hope you continue to find this newsletter useful, but if you have any feedback or enquires related to the CHES Replacement project, please continue to direct them to [CHESReplacement@asx.com.au](mailto:CHESReplacement@asx.com.au).



**Tim Hogben**  
Group Executive  
Securities and Payments



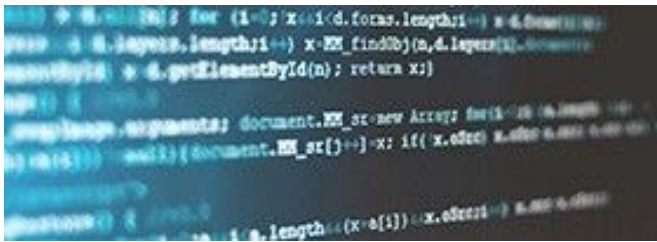
Engagement Activities



### Software Provider Readiness

This new section provides a summary of information to support those developing their own software. Find out more about this upcoming phase of industry testing.

[Read more >](#)



### Customer Development Environment Updates

Our latest drop of code (CDE 10) was released on 27 September 2021. This was our final functional release to CDE which included the revised netting and settlement workflows as well as other features.

[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 new questions that may be of interest.

[Read more >](#)

Technical Documentation



### Implementation & Transition Working Group

ASX hosted the most recent implementation & transition working group (I&T WG) on 30 June 2021, which focused on an information paper that set out the industry testing strategy. Our next I&T WG will be on 29 September.

[Read more >](#)



### Rule Amendment & Public Consultation Timeline

The third tranche of operating rule amendments as well as a consolidated rules package across all the rule amendments for the new system was released for public consultation on 31 August 2021. Feedback is requested by 14 December.

[Read more >](#)



### Documentation Spotlight

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

[Read more >](#)



[What's new](#)



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Where to next?



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# Software Provider Readiness

This new section provides a summary of information to support those developing their own software to connect to the CHES replacement system. Find out more about this phase of industry testing - [Software Provider Readiness](#), of the Industry Test Strategy.

This update highlights:

- Documentation published to support software provider readiness,
- A summary of a new working group for those developing their own software.

## Industry Test Strategy - Software Provider Readiness Phase

At the end of June 2021 ASX published the Industry Test Strategy which outlined the approach to the different test stages and test environments and provided an overview on what they need to do at each stage including what testing needs to be evidenced to be successful and progress onto the next stage.

The first of these phases is for software providers known as [Software Provider Readiness](#) test stage. This phase comprises of system testing and accreditation and are to be performed in industry test environment 1, or ITE1. Documentation will be progressively published in advance of the market opening of the ITE1 environment.

## Support documentation published by 30 September 2021:

Documentation that has been published to support this phase includes:

- [Connectivity Guide](#) for those wishing to connect to ITE1 for testing.
  - This guide was subsequently updated with details for future environments of ITE-M and ITE2.
- [Guide to Testing Services](#) provides an overview to the industry test environments; details for accessing ITE1 including system events; details on the test kits and test tooling.
  - This guide will continue to be updated for later test phases.
- [Failover & Recovery Guide](#) provides an overview on failure details for access options - ledger API node, AMQP broker, FIX Gateway and CHES UI reconnection. It also provides initial details for failover testing in ITE1.
  - This guide will continue to be updated for later test phases.

Full documentation release notes were published at the end of [August 2021](#) and [September 2021](#) covering the above.

## Coming up:

The focus of the ASX team for the next period is to support the software providers to successfully connect to the ITE1 environment. Organisations are encouraged to submit [ITE1 application forms](#) if they have yet to do so.

## Software Provider Readiness Working Group

In September 2021 ASX kicked off a new working group for those organisations who are developing their own software to integrate with the CHES replacement system - Software Provider Readiness working group (SPR WG).

ASX has hosted two meetings since September.

## SPR WG - 15 September 2021

A summary of the topics presented include:

- Outline of the objectives for the working group;
  - To provide clarity and certainty around significant areas such as connectivity requirements to environments, security, test tooling and test strategies
  - To ensure readiness for the mandatory technical accreditation phase commencing from late April'22.
- Timing of the most recent code release in to the Customer Development Environment (CDE). CDE 10 was [released](#) to the market on 27 September 2021 and included;
  - Netting and Settlement Workflow Changes incorporating updates to market trade, netting, reporting and batch settlement
  - Additional end of day and demand reporting was also delivered
  - The ability for a Controlling Participant / Issuer (Registry) to initiate / cancel full and partial DRP/BSP Elections
  - Party Identification support for both a BIC and UIC format is introduced
  - Resolved CDE 9.5 known defects and observed behaviours.
- Spotlight on AMQP;
  - A recap on AMQP connections, sessions and queues
  - Details of new ITE1 additional reporting queue
  - Set up process with ASX registration and certificate requests
  - Connection properties including reconnection details, availability and failover
  - Sending requests and receiving notifications, and
  - AMQP transaction support.

## SPR WG - 13 October 2021

A summary of the topics presented include:

- Introduction to the Customer Service Account Management (CSAM) portal;
  - To successfully connect to the ITE testing environments organisations will need to use the new CSAM portal to support creation of security certificates
  - There will be three types of service account - TLS, Ledger API and ISO signing
  - CSAM portal onboarding and other instructions will be published at the end of October 2021.
- Ledger API token acquisition (for Ledger API connectivity users only);
  - To meet this requirement, Ledger API authentication and authorisation will be introduced in ITE1
  - Ledger API users will be required to securely request an authorisation token using a standards based API.
- Netting and Settlement functionality update questions;
  - Common questions as a result of the revised design for netting and settlement, which was introduced with the most recent code release CDE10.
- Accreditation step of the software provider readiness phase;
  - A refresher on the Accreditation activities, and understanding how to use the published Messaging Accreditation scenarios and scripts.

### Coming up:

The next SPR WG will be held on **Wednesday 10 November 2021**.

Details of the Software Provider Readiness working groups, including a copy of the presentation, webinar recording and Q&A can be found [here](#).

### Further information

Details of the [Industry Test Strategy](#) were walked through at the recent Implementation & Transition working group. A copy of the presentation, webinar recording and Q&A can be found [here](#).

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

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# Implementation & Transition Working Group

## I&T WG - 29 September 2021

ASX hosted our last implementation & transition working group (I&T WG) on 29 September and provided members with a project update, an overview on the third tranche of operating rule amendments and consolidated rule set, and recently published documentation.

Project update included :

- Final functional code release provided in CDE on 27 September. Details can be found in the [CDE section](#) of this newsletter
- Build of the ITE1 environment infrastructure is under way and on track
- New working group convened for software provider readiness. Details can be found in the [SPR section](#) of this newsletter
- [Information sheet](#) published providing details on system access pricing for all users.

Tranche 3 and consolidated operating rule amendments:

- Recap of multi-year journey for the rules consultation package released 31 August 2021
- Content of the rules consultation package
- Tranche 3 rule amendments
- Next steps including consultation feedback due by 14 December 2021. Details can be found in the [Rules Amendment](#) section of this newsletter.

Market documentation published in advance of software provider readiness and the opening of ITE1:

- Connectivity details for ITE1, and subsequently updated with details for subsequent environments (ITE-M, ITE2)
- Guide to Testing Services for software providers in ITE1
- Failover & Recovery details for ITE1
- Further documents will be [released](#) in the coming months, including - security details, Accreditation Guide for software providers, Cutover & Migration Strategy.

The recording for the 29 September webinar, presentation materials and Q&A can be found [here](#).

## Coming up

The next I&T WG will be held on **Wednesday 27 October** and will include a recap on information provided to date on cutover and migration. This webinar will be in advance of ASX hosting focus groups in early November to discuss any clarifications or challenges with the approach. Calendar invitations will be sent out in advance of both events.

## Other resources

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

### REMINDER:

For your consideration in any CHES changes:

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

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

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# 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](#).

## CDE 10

Our latest drop of code (CDE 10) was released on 27 September 2021. This was our final functional release to CDE which included the functional code for the netting and settlement changes and combined with DRP/BSP functionality and enquiry workflows, that was previously scheduled for CDE 11. This completes the full functional payload for day 1 go-live.

CDE10 was made up of remaining functional features including;

- netting and settlement changes
- DRP/BSP elections
- remaining demand reporting
- rectified known issues and defects.

Full [release notes](#) were published in the ASX's documentation portal.

## Coming next

With CDE10 this completes the functional development for the CHES replacement system. Focus now shifts to the next phase of industry testing, for [Software Provider Readiness](#) and the opening of the new ITE1 environment.

The Customer Development Environment for organisation not moving in to ITE1 will continue to be supported, until the subsequent phases of testing migrated data (ITE-M) and CHES User Readiness (ITE2). Details are provided in the published [Industry Test Strategy](#).

## Other CDE information

The CDE [Forward Release Plan](#) provides details of the development timetable.



### CDE reminders:

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.

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

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# Rule Amendment & Public Consultation Timeline

## Market Consultation

ASX needs to make rule amendments to facilitate the implementation of the new system that will replace CHESSE. These rule amendments are being progressed through three tranches.

The consultation rounds on the first and second tranches of draft rule amendments to support the new system have now been completed. A further final round of consultation incorporating both the third tranche of draft rule amendments to support the new system and a consolidated rules package across the three tranches commenced 31 August 2021, with a 15 week consultation period concluding 14 December 2021.

The [rule development timeline](#) captures the key dates for the regulatory and public consultation processes across the three tranches of rule amendments for Day 1 of the new system. It also covers rule amendments addressing new business requirements generated through industry consultation for CHESSE Replacement but which are not dependant on the new system and which have now been delivered through ASX business as usual (BAU) processes or the Corporate Actions STP Phase 2 Project. The timeline shows both completed and upcoming processes.

## Public Consultation on Tranche 1

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 CHESSE 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.

## Public Consultation on Tranche 2

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 CHESSE 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's response to consultation feedback on the revised implementation timetable released in October 2020 removed from Day 1 scope of the new system certain functionality addressed in the tranche 2 rule amendments. As a result, the rules supporting:

- Electronic acceptance and payment for entitlement offers,
- CHESSE processing of elections as to alternate forms of consideration under schemes of arrangement,

have been removed from the consolidated rules package (referred to below) and revised timing for these rules will be considered following Day 1 (with that functionality to be part of a future release (the timing for which is yet to be determined)).

## Public Consultation on Tranche 3 and consolidated rules package

The **third** tranche of operating rule amendments as well as a **consolidated rules package** across all the rule amendments for the new system was released for [public consultation](#) on 31 August 2021. The content in tranche 3 relates to netting, settlement, reporting and miscellaneous amendments for Day 1 CHESSE replacement system functionality, including as revised to reflect changes to netting and settlement workflows as consulted on in 2021. As part of the miscellaneous amendments, they also include transitional rules addressing migration aspects for the cutover to the new system.

The consultation paper invites feedback from users and other stakeholders on the operation of the draft tranche 3 rule amendments, including any unintended consequences, as well as the combined package of rule amendments.

Written submissions are requested by **Tuesday 14 December 2021**.



ASX will provide its response to consultation in early June 2022, ahead of formal lodgement of the combined rules package with ASIC in early September 2022 (subject to regulatory clearance).

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# Customer Frequently Asked Questions

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

## Functionality & Specifications

▼ [With regards to mFunds, can we still send both an application request message \(mfnd\\_401\) and investor data details message \(acct\\_012\) at the same time, or do we have to wait for the mfnd\\_401 message response before we send the acct\\_012 message?](#)

If the participant was to send an application request (mfnd\_401) and investor details (acct\_012) together we cannot guarantee in which order they will be processed by the CSP. Should the investor details (acct\_012) be processed before the application request (mfnd\_401), then the investor details (acct\_012) will be rejected by the system.

To guarantee that valid investor details (acct\_012) related to an initial application are accepted by the CSP, it is advisable to transmit the investor details (acct\_012) message once the application request (mfnd\_401) has been transmitted and the CSP has acknowledged the receipt of it.

[mFund specifications](#) are provided in ASX's documentation portal.

▼ [If a Novated Rescheduled Instruction \(NRI\) is consistently failing, why would a buyer request a 'PARTIAL' isolation quantity. Could you please provide the business rationale to this functionality?](#)

It's always the buyer (receiving broker) who would submit an Isolate Request for the number of units it wants to Isolate (it may not be for the full value of the Novated Rescheduled Instruction (NRI) because there may be more than one client buying but only one client is seeking to Isolate).

Once isolated, the participant on the other side failing to deliver is identified and a link is established. The original NRI is marked down by the value of the isolation and the will be available for further isolation. The resulting Isolated NRI is no longer available for further isolation. An NRI is available to be isolated until its completely isolated or delivered and if it keeps on failing it may be in the buyer's interest to isolate to discover who the sellers are that are failing to deliver.

You can read more details [here](#) in ASX's documentation portal.

▼ [Can you please confirm the process for a Deceased Estate in relation to a Joint Holder, when only one Holder is deceased and there is a surviving Holder involved?](#)

From a Rule perspective it is not mandatory for the Participant to lock a Deceased Joint account, if there is a surviving Holder. The Controlling Participant must, within 1 business day, establish a new Account (HIN) in the surviving Holder's name. The Participant transfers the relevant holdings to the new one surviving holder account (HIN). The Participant can then cancel the old, deceased Joint Holders account (HIN) once all Holdings have been transferred out.

You can read more details are provided [here](#) in ASX's documentation portal.

▼ [If a Participant wishes to update and change a number of combinations of Holder details \(ie: add middle name, change salutation and change surname\) can these updates all be made within one single account modification request?](#)

Participants can modify multiple attributes of a Holder Name and associated details within a single Account Modification Request.

You can read more details [here](#) in ASX's documentation portal.

▼ [Is it correct that for a scenario where an account with a single holder has initiated a holder lock for bankruptcy that, when the response is received, that the account status and holder status are BOTH "Locked"?](#)

The scenario is correct. The response received will show BOTH account status and holder status as 'Locked'.

You can read more details [here](#) in ASX's documentation portal.

▼ [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](#).

## ISO 20022 message signing:

▼ [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](#).

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

CHES 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, CHES 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 [Connectivity](#) section of our Documentation portal.

▼ [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.

## Implementation & Transition

▼ [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 Documentation portal.

This topic was also included in one of the Software Provider Readiness working groups. Details and slides of past sessions can be found [here](#)

▼ [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 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. Additional [message test scenarios](#) will be progressively released in tranches in line with the published plan.

Details on [Messaging Accreditation](#) can be found in our Documentation portal. Additional information about subsequent industry testing phases is provided under our [Implementation Phases](#) section of our Documentation portal.

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

Information about subsequent industry testing phases is provided under our [Implementation Phases](#) section of our Documentation portal, including the Industry Test Strategy.

Questions relating to the approach to transition, cutover and accreditation will be published in our 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 User Interface \(UI\) connectivity?](#)

CHES Users don't need to have access via the new CHES UI; 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.

ASX has published a [CHES UI user guide](#) in our Documentation portal.

▼ [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 the new Customer Service Account Management (CSAM) service to the Documentation portal by Q4 2021 in advance of ITE1 opening.

### Ledger API questions:

▼ [What is a DAML Party?](#)

CHES 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, CHES 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 [Connectivity](#) section of our Documentation portal.

▼ [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 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 [Connectivity](#) section of our Documentation portal.

▼ [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 [Connectivity](#) section of our Documentation portal.

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

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

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# Documentation Spotlight

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

This month we are providing a list of other recent documentation publications since our last newsletter.

## CHESS Replacement Documentation portal updates

### September 2021 Documentation Release Notes

Updates included:

- Guide to Testing Services for ITE1
- Failover and Recovery Guide for ITE1
- ASX Procedure Guidelines - including;
  - Section 11 – Corporate actions
  - Section 22 – Issuer (registry) procedures, to include DRP/BSP elections and enquiry
  - Section 23 – mFund settlement service, to include distribution advice notification
- Approved Market Operator (AMO) dedicated landing page – to simplify navigation
- Connectivity Guide – updates to incorporate ITE-M and ITE2 details
- Cutover and Migration updates incorporating the mFund blackout details.

### CDE 10

Updates included:

- Full CDE release notes
- Supporting [What's New 27 September](#) documentation
  - With the release of CDE code drop 10, CDE 10 pages have been merged into the pages previously containing CDE 9.5 documentation - specifically on netting and settlement. Refer to [Netting and Settlement Workflow Changes](#).

### Further information

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

- [Documentation Portal - home page](#)
- [ASX Operational Procedures & Guidelines](#)
- [Documentation Release Notes](#)
- [Documentation What's New updates](#)
- [Documentation FAQs](#)

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

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## Upcoming Activities

Date	Activity
13 October 2021	Software Provider Readiness Working Group
27 October 2021	Implementation & Transition Working Group
Q3 2021	Pricing model published for electronic CHES holding statements
End November 2021	Publication of Accreditation Guide
End November 2021	ITE1 open and system testing commences
December 2021	Target go-live for electronic CHES holding statements

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## Useful weblinks

### General project resources:

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>

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>

ASX CHES Replacement Technical Documentation

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

### Project consultation & information papers:

CHES Replacement: Confirmed changes to netting and settlement workflow - Response to consultation feedback

<https://www2.asx.com.au/content/dam/asx/markets/clearing-and-settlement-services/chess-replacement-response-to-consultation-feedback-confirmed-changes-to-netting-and-settlement-workflow.pdf>

Industry Test Strategy Information paper

<https://www2.asx.com.au/content/dam/asx/markets/clearing-and-settlement-services/chess-replacement-industry-test-strategy.pdf>

Consultation Paper on the proposed changes to netting and settlement workflow

<https://www2.asx.com.au/content/dam/asx/participants/clearing-and-settlement/chess-replacement/stakeholder-communications/asx-chess-replacement-project-consultation-paper-proposed-changes-to-netting-and-settlement-workflow.pdf>

Information Paper on data governance for CHES and CHES replacement system

<https://www2.asx.com.au/content/dam/asx/markets/clearing-and-settlement-services/information-paper-asx-data-governance-under-chess-and-chess-replacement.pdf>

Consultation Paper on the proposed Listing Rule Changes: online forms, notification of security issues and corporate action timetables

<https://www2.asx.com.au/content/dam/asx/about/regulations/public-consultations/2020/2020-stp-consultation-paper.pdf>

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>

### Rule amendment market consultation:

CHES Replacement - Tranche 3 Rule Amendments, together with the combined package of rule amendments across the three tranches

[Consultation Paper - August 2021](#)

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](#)

### Pricing information and details:

ASX CHES Replacement System Access Pricing (updated)

[Pricing information paper - September 2021](#)

ASX CHES Replacement System Access Pricing

[Pricing Letter - September 2019](#)

### Project fact sheets:

CHES Replacement fact sheets:

[Fact sheet - for participants](#)

[Fact sheet - for issuers](#)

[Fact sheet - for payment providers](#)

Electronic delivery of CHES holding statements and notifications - technical and process factsheet

[Market notice - 31 August 2021](#)

Digital Asset – DAML (including requesting the SDK):

<https://daml.com/>

**Historic project consultation papers:**

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>

**Other resources:**

Recent ASX Webinars:

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

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

[Podcast - July 2019](#)

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