



CHES Replacement Project

**Software Provider Readiness
Working Group**

14 September 2022

Important Information

Competition Law Policy

Working group members are reminded to have regard to their obligations under competition law. In particular, please note changes to the Competition and Consumer Act to prohibit a corporation from engaging with one or more persons in a concerted practice that has the purpose, effect or likely effect of substantially lessening competition.

Agenda

> ITE1 Updates

> Message Accreditation

- > Overview of this phase
- > Application process
- > Update to message scenarios
- > Timeline

> Q&A

> Forward schedule

ITE1 Updates

ITE1 Updates

Code Drop v1.3

Key Points

- > Version 1.3 released into ITE1 at the start of August, [release notes link](#)
- > ASX Assisted testing (functional) unsolicited message testing now enabled, [schedule link](#)

Scheduled Transactions (Unsolicited)				
Broadcast notification	<p>ASX is able to assist software providers with broadcast notification testing, with an event code Generic (CAST) which may be used in a number of circumstances including to notify that CHES end of day reporting is delayed or the CHES platform is unavailable due to maintenance.</p> <p>The CHES replacement system sends a broadcast notification for the following scenarios:</p> <ul style="list-style-type: none"> • Settlement Cut-Off Extension (CUTE) 	<ul style="list-style-type: none"> • Participant • Issuer (Registry) • Payment Providers • PISP 	N/A - Customers cannot request this scenario	<p>Weekly 3:00pm on Mondays</p> <p>i Commencing 15 August 2022</p>
Extend settlement cut-off	<p>ASX is able to assist software providers with testing of extension of settlement:</p> <ul style="list-style-type: none"> • Settlement Cut-Off Extension (CUTE) 	<ul style="list-style-type: none"> • Participant • Payment provider 	N/A - Customers cannot request this scenario	<p>Weekly 11:00am on Wednesdays</p> <p>i Commencing 17 August 2022</p>
Cancel settlement	<p>ASX is able to assist software providers with testing of cancellation of settlement testing.</p>	<ul style="list-style-type: none"> • Participant • Payment provider • PISP 	N/A - Customers cannot request this scenario	<p>Fortnightly 12:00pm on Fridays</p> <p>i Commencing 19 August 2022</p>

ITE1 Updates

Code Drop v1.3

Key Points

- > ASX Assisted testing (non-functional) the following failover **currently** enabled
 - AMQP failover – ALC to SDC, every Tuesday and Thursday at 2pm
 - AMQP failback – SDC to ALC, every Tuesday and Thursday at 5pm

- > ITE1 – Unscheduled Reset 6 September
 - End of day diary adjustment process on 5 September encountered an issue relating to a failed BSSI instruction with a pending cancellation request
 - While remediation of this contract was taken on the morning of 6 September, it caused a subsequent issue during batch settlement the same day
 - Environment was re-set to provide a quicker return to service than develop a data fix (noting this action was taken in the context of ITE1 being a test environment)
 - The underlying issue has been resolved and is part of the next v1.4 release date (TBC)

- > Avoiding a reoccurrence pre- v1.4
 - ASX are requesting software providers to complete ‘cancellation workflow’ on scheduled instructions (BSSI, NRI) on the same day to avoid a repeat of this scenario
 - ASX Operations will monitor this and cancel any scheduled instructions EOD but request all software providers testing participant workflow to incorporate this as part of testing

ITE1 Updates

Code Drop v1.3

Key Points

- > Thursday 22 September has been declared National Day of Mourning and Public Holiday in Australia.
 - CHES Replacement – ITE1;
 - ITE1 to operate as a normal settlement date on this day
 - Support issues raised on 22 September will be reviewed by ASX the following day

- > ASX Assisted testing (non-functional) to be implemented prior to the end of September (updates via CTS)
 - Ledger API node disconnects and FIX Gateway failovers to be enabled by end of September (updates via CTS)

- > Next release of ITE1 will be 1.3.1 on Friday 28 October
 - Minor release
 - No schema changes
 - CHES UI and reporting defect resolution
 - No impact to initial message accreditation scenario or testing with this release
 - Further 12 months of corporate actions seeded as part of this release (new CA files will be disseminated to clients prior)

- > Heads up - forthcoming changes (TBC)
 - AMQP – configuration change to limit one connection per queue (current model but not enforced)
 - Ledger API – new heartbeat solution to assist with timeout after 4hrs of inactivity – optional
 - Self service tool – new Swagger UI (wrapper around cURL to provide a UI interface) – optional

Message Accreditation- Overview of phase

Initial Accreditation Phases

Phase 1 Initial accreditation - starting from October and acting as a readiness checkpoint

- > Optional phase for software providers to participate
- > All software providers can attempt the messaging scenarios relevant to what their systems support (mandatory & optional)
- > Messaging accreditation only for this phase (connectivity accreditation not in scope)
- > No overall pass / fail
- > Useful exercise to provide software providers;
 - Verify development progress and identify potential defects
 - Provide their internal/external stakeholders measurable results

Phase 2 Final Accreditation - to be performed on the CHES Replacement go live production candidate closer to the implementation date

- > Messaging and connectivity
- > Mandatory phase for all software providers
- > All supported scenarios must be passed or exempted

Initial Accreditation Process

1. Customer (Submission of the accreditation checklist)

- > Oct'22 to end Feb'23 (blackout period 19-Dec to 6-Jan)
- > Availability post this phase based on demand
- > Submit accreditation checklist form available [here](#)
- > Contact point – CTS@asx.com.au
- > Exemption requests (if not previously discussed, e-mail CTS prior to submitting checklist)
- > CTS will advise when forms can be submitted
- > Lead times



3. CTS (Process the Accreditation Attempt)

- > Failures and investigations
- > BizMsgIdr
- > Time/date



2. Customer (Complete accreditation scenarios)

- > Software providers to have tested all scenarios prior to accreditation test
- > Use of the accreditation UIC during test window
- > Flagging issues failures
- > Flexibility to re-test



4. CTS (Generate Accreditation Report)

- > Partial and full reporting
- > Repeating accreditation
- > Repeating one or more scenarios



CRM#12345	Customer_Report_Sample application name_version number_05092022		16/08/2022	
Scenario	Role	Function	AS Status	Comments
CS-HT-01	Clearing & Settlement Participant	Holding Transfers	M PASSED	
CS-HT-02	Clearing & Settlement Participant	Holding Transfers	M PASSED	

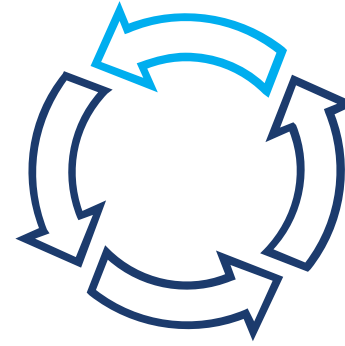
Initial Accreditation Feedback

Feedback and lessons learnt

- > 5 continuous business days to complete messaging scenarios
- > Dependencies
- > Full vs function by function
- > Known issues and limitations wiki page

Known Issues and Limitations

- > Code change corporate actions only occurring once per month
- > Account, Settlement and Clearing and Settlement participant have two housekeeping scenarios to be performed between 9 to 7 business days prior to Accreditation.
- > Broadcasts not currently available for Specialist SP (Offeror) role



Message Accreditation- Updates to message scenarios

Technical Accreditation

Messaging Accreditation Scenarios

Latest updates to scenario files

All updates are version controlled and backed with release notes

Version numbers are mentioned on Messaging Accreditation Scenario [page](#) with scenario file name on the main sheet of scenario files.

Updates

Scenario: CS-HT-11, SP-HT-11, AP-HT-11

Change: Scenario changed from Class merger to Code change

Override Basis of Movement field removed

Reason: Functional Specification updated to reflect Holding Adjustment Notification (hold_226) (PTCC) only applicable for Code Change, not Class merger.

Participants are exempt from this scenario in initial accreditation

This scenario will be mandatory for final round of accreditation

Scenario: CS-AC-27, SP-AC-27, AP-AC-25

Change: Controlling Participant Status Advice (Cancellation) (hold_221) message removed

Reason: Functional Specification updated

Microsoft Excel Format (.xlsx)

Account Participant

- Version 1.7 (13/09/22)

> Change Log

Specialist SP (Offeror)

- Version 1.3 (22/08/22)

> Change Log

Clearing & Settlement Participant

- Version 1.7 (13/09/22)

> Change Log

Payment Provider

- Version 1.2 (30/06/22)

> Change Log

Issuer (Registry)

- Version 1.5 (13/09/22)

> Change Log

Product Issuer Settlement Participant (PISP)

- Version 1.3 (22/08/22)

> Change Log

Settlement Participant

- Version 1.7 (13/09/22)

> Change Log

Approved Market Operators (AMO)

- Version 1.0

> Change Log

Technical Accreditation

Messaging Accreditation Scenarios

Updates in previous release

Scenarios: Change of Controlling Participant Housekeeping (CS-AC-28, CS-AC-29, SP-AC-28, SP-AC-29, AP-AC-26, AP-AC-27)

Change: Supplementary Information updated

Reason: Scenario needs to be executed 9 to 7 business days prior to Day 1 of Accreditation

New Scenario: CS-SI-09

Change: New scenario


Reason: Functional specification and schema of sett_107 updated

Message Accreditation- Messaging timeline review

Technical Accreditation

Messaging Accreditation Timelines

Latest released updates

- > Messaging Accreditation Timeline provides the guidance to execute
- > Messaging Accreditation Scenarios in five days
- > Most of the scenario execution days are recommendations from ASX but there are
- > certain scenarios which need to be executed on specific Day (marked as )
- > New version of Messaging Accreditation Timelines includes
 - New column “9 to 7 days prior” for Clearing and Settlement, Settlement and Account Participants
Used for Change of controlling participant housekeeping scenario
 - New column “1 day prior” for Clearing and Settlement Participants
Used for Batch settlement scenario
- > CS-HT-11, SP-HT-11 & AP-HT-11 - Participants are exempt from this scenario in initial accreditation
- > Specialist Participant (Offeror)
 - Update to class merger scenarios to be executed on Day 1 and 2 (from Day 2 and 3)
 - Update to bid offer scenarios to recommendation on Day 3 execution (from must do on Day 4)

Function	Scenario #	9 to 7 days prior	1 day prior	DAY1	DAY2	DAY3	DAY4	DAY5	Notes
	CS-AC-20			✓					prerequisite scenario
	CS-AC-21			✓					assisted scenario
Account Cancellation	CS-AC-22			✓					
	CS-AC-23			✓					
	CS-AC-24			✓					alternative UIC
Change of Controlling Participant	CS-AC-25			✓					alternative UIC
	CS-AC-26			✓					alternative UIC
	CS-AC-27			✓					alternative UIC
	CS-AC-28		✓						Execute this scenario 9 to 7 busine CSP will Housekeep the request a
Change of Controlling Participant - Housekeeping	CS-AC-29		✓						Execute this scenario 9 to 7 busine CSP will Housekeep the request a alternative UIC
	CS-AC-30			✓					
Controlling Participant Enquiry	CS-AC-31			✓					
	CS-AC-32			✓					tool available
Issuer Data - Bank Account Update/Delete	CS-AC-32A			✓					tool available
	CS-AC-33			✓					tool available
	CS-AC-34			✓					
Investor Data and Foreign Tax Status Details				✓					

Q&A

Forward Schedule

Stakeholder Engagement – Next Steps

Upcoming Dates

Review & Feedback

- > Slides and Q&A will be published on the CHES Replacement webpage
- > Provide feedback by contacting CHESReplacement@asx.com.au – use “SPR – WG” as the subject heading

Market Documentation

- > Sept 2022 Documentation Release – [14 September 2022](#)

Engagement

- > SPR-WG – Oct TBC

Thank you.



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