

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 Technical documentation update
- ITE1 Open update
- ITE1 ISO20022 update
- Technical Accreditation update
- Q&A
- Forward Schedule



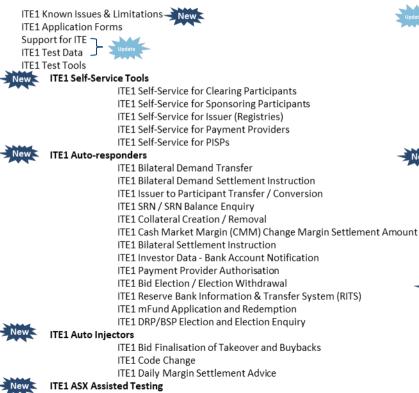
ITE1 Update -Technical documentation update



Technical documentation – Industry Test Environment

https://asxchessreplacement.atlassian.net/wiki/spaces/CSP/pages/23233105

> Updated pages to support testing in ITE1 for software providers:



Guide to Testing Services

Section 01 - Introduction to the Guide to Testing Services

Section 02 - Test Environment Overview

Section 03 - Access to Industry Test Environments (ITEs)

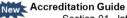
Section 04 - Test Kits for ITE1

Section 05 - Test Tooling

Section 06 - Performance Testing

Section 07 - Accreditation Testing for ITE1

Section 08 - Inflight Migration Testing (for ITE-M only) New



Section 01 - Introduction to Accreditation Guide

Section 02 - ASX Accreditation Process

Section 03 - Technical Accreditation Testing

Section 04 - Connectivity Accreditation

Section 05 - Messaging Accreditation Testing

Section 06 - Supplementary Information for Messaging Accreditation

Messaging Accreditation Scenarios CHESS User by Feature, Message

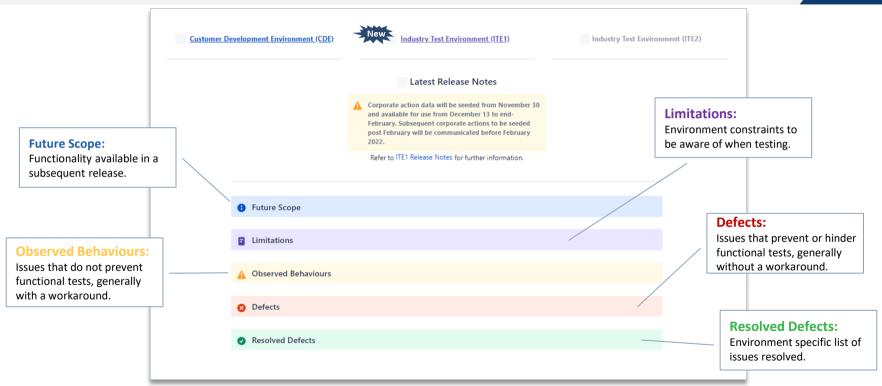


- ITE1 release notes
- 3 Dec What's New
- 30 Nov What's New
- 15 Nov What's New



Technical documentation – ITE Known Issues / Limitations

https://asxchessreplacement.atlassian.net/wiki/spaces/CSP/pages/1688473384



!! TIP = Search the page for 'Identified in ITE1' for specific items for ITE1



Industry testing supporting documentation

Significant documentation to support ITE1 already published

Documentation already published:

- > Industry Test Strategy Jun 21
- > Connectivity Guide (ITE1) Jul 21
- Messaging Accreditation (netting & settlement updates) – Aug 21
- > Guide to Testing Services (ITE1) Sep 21
- > Failover & Recovery details (ITE1) Sep 21
- > Connectivity Guide (ITE-M) Sep 21
- Connectivity Guide (ITE2) Sep 21
- > CHESS UI (mFunds) Sep 21
- Suide to Testing Services (uplift) Nov 21
- > Accreditation Guide Nov 21

Upcoming documentation (mid-Dec):

- > Ops Readiness Scenarios
- Dec 21
- > Cutover & Migration Strategy
- Dec 21

Upcoming key documentation milestones

- User Testing Guide (ITE2) Jan 22
- Solution Services (ITE2) Jan 22
- Industry Wide Testing HL plan May 22
- Market Dress Rehearsal (MDR) details Jul22
- > Industry Wide Testing details Sep 22

The forward release plan will continue to be updated highlighting when key deliverables and topics will be published to the market.

Refer to Section 6 of the Industry Test Plan.



ITE1 - Open update



Industry test environment

ITE1 update – All software providers

ITE1 opened at the end of November and now available for software providers to start transitioning from CDE to ITE1

- > Transition period runs from Dec'21 to the end Feb'22
- > ASX is now contacting software providers to confirm; connectivity, test kit distribution and certificate distribution
- > ITE1 opens with full clearing and settlement functionality (corporate action events from Jan'22)
- > Guide to testing services <u>here</u>
- > Software providers should note that the test kits are unique to their organisation and they will can only transact using data in that test kits, test kit overview here
- > Self-serve test tools may have format changes from CDE check the latest formats here
- NEW Assisted testing for ASX initiated workflow details here
- > Request for support e-mails to contain CDE or ITE1 to assist with queries, details here
- > Reduced non-Production support for ITE1 (and CDE) 20-31 Dec (inclusive)



Industry test environment

ITE1 update – Useful links

Ledger API

- > Applications must implement new token authorisation process, details here
- > Removal of package ID improves performance of the initial connectivity to the ledger, details here
- > New definition of command ID & workflow ID format, details here
- > Heads up new Ledger error codes in DAML 1.18 (released Q1'22), details here

AMQP

- > Introduction of new reporting queues, details here
- > Requirement to incorporate AMQP properties (BizMsgldr & Correlation ID) details here

CHESS UI

- > <u>User guide</u> and recommendations for setting up users in ITE1, details <u>here</u>
- > Additional IP & Port added for authentication, details here



ITE1 – ISO 20022 update



Industry test environment

ISO 20022

Software providers must ensure their applications have the flexibility to support the _!p suffix found in the business service suffix, details <u>here</u>

The business service found in the BAH, as an example; hold_201_001_01_!p

Constructed as follows;

- > ASX Message Id hold 201
- > Release and Version 001_01
- > **Suffix** (_!p)

_!p = Pilot - Should be supported in all test environments (e.g. hold_201_001_01_!p)

No suffix = Production - The lack of an environment indicator should be supported in production only (e.g. hold_201_001_01).

Application will be required to demonstrate this capability in technical accreditation



Pagination

Applicable Messages - Reporting

Software providers must ensure their applications support pagination

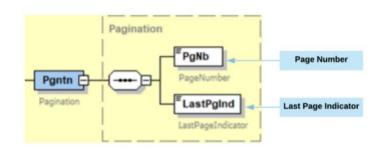
Messages will result in pagination where the maximum message size limit is exceeded.

A number of reports support pagination;

- Rptg 604 HBAL (Holder Balance)
- Rptg_604 HSBL (Holding Subposition Balance)
- Rptg 604 CEBL (Cum Entitlement Balance)
- Rptg_605 HMVT (Holding Movement)
- Rptg 605 CEMV (Cum Entitlement Movement)
- Rptg 608 OBLG (Obligation Status Report)
- Rptg_609 NNDP (Netted Obligation Report)

Report size has been configured as ~32kb in ITE1and this is the proposed file size through to production.

Details of pagination can be found <u>here</u>



- **1.Page Number <PgNb>:** indicates each page of the paginated message.
- **2.Last Page Indicator <LastPgInd>:** indicates whether the page of the paginated message is the last page.

true = last message (page)
false = all other paginated messages
(pages)



Accreditation Update



Recap

What was covered in October SPR working Group?

- > Technical Accreditation
 - Two components, Connectivity & Messaging Accreditation
 - Mandatory for all software providers
 - Test environment ITE1
 - Scheduled end April mid July 2022
- > Messaging Accreditation
 - Scenario files for CHESS user type
 - Scenarios grouped by features
 - Mandatory / Optional scenarios
 - Required Fields for scenarios
- > Structure of Messaging Accreditation Scenarios



Agenda

Today's session

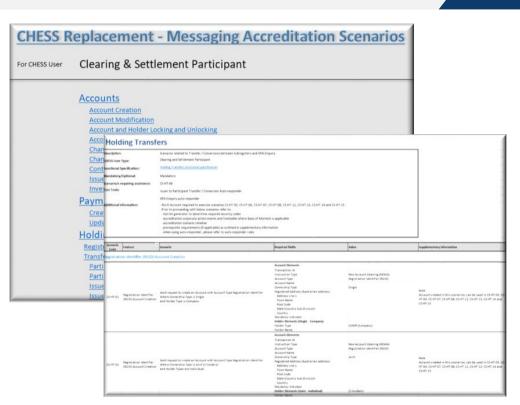
- > Uplifted version of Messaging Accreditation Scenarios
- > Counterparty Scenarios
- > Test Tools for Messaging Accreditation
- > Assistance Required Scenarios
- > Additional Information
 - BizMsg ID
 - DRP Mandatory Scenario
- > Introduction to Technical Accreditation Guide
- > Action items for Software providers



Messaging Accreditation Scenarios

Uplifted version of Scenarios

- > Header in each Sheet
- > More details in Supplementary Information
- Previously executed scenarios can be used as prerequisite but not mandatory
- > Test Tools that can be used
- RGID scenarios moved with Holding Transfers
 Scenarios (Clearing and Settlement, Settlement and Account Participants)
- BDSI Payment Facility scenario is moved with BDSI scenarios (Clearing and Settlement and Settlement Participants)
- > Assistance Required Scenarios are marked
- Scenarios are marked as Mandatory / Optional





Counterparty Scenarios

How to read and execute counterparty scenarios?

- > Where user need to act as counterparty/other type of CHESS user
- > Messages are marked in Green
- > Important to read Supplementary Information





Test Tools

Tools that can help execute the scenarios

- > ITE1 Test Tools will be available for Accreditation
- > Self serve tool Self-Service Tools are provided by ASX to support vendors and participants simulate events where a counter-party is required
- > Auto Responders An Auto-responder feature is provided by the ASX to help vendors and participants simulate events where a Counterparty response is required

Alternate to Test Tools

- Different UIC (from Test kit) can also be used to act as counterparty
- > CHESS UI Can be used as an alternative to the Self-Service Tools



Assistance Required

ASX Assistance is required

- > ASX Assistance is required to execute the scenarios
- > Scenarios are marked in sheet header and in Supplementary Information

 List of assistance required scenarios for each CHESS user type will be part of Scenarios Timelines (Technical Accreditation Guide)





Additional Information

Business Message ID

- This is an existing process where software providers need to provide BizMsgID as evidence of test
- ASX invested in automating the verification process
- Software providers are no longer required to provide BizMsgID as evidence of test
- ASX reserves the right to contact software providers to ask about evidence for randomly picked scenarios

DRP/BSP Mandatory Scenario

- > DRP/BSP is an optional function for
 - Clearing and Settlement Participants
 - Settlement Only Participants
 - Account Participants
- DRP/BSP scenarios are optional for above mentioned participants
- Issuer (Registry) Initiated DRP/BSP Election Cancellation scenario is Mandatory
- For Issuer (Registry) DRP/BSP function and all scenarios are mandatory



Technical Accreditation Guide

High-level Overview

- > Objective of technical accreditation
- > Accreditation Process overview
- > Application Accreditation Checklist
- > Connectivity Accreditation Scenarios
- > Messaging Accreditation Timeline
- > Corporate Action Timeline
- > Additional Information
 - Counterparty scenarios
 - Assisted Scenarios
 - Optional/Mandatory scenarios matrix



Action Items

Actions to perform

- > Go through all the scenarios in detail
- > All related scenarios must be part of functional testing
- > How to execute scenarios e.g. Prerequisites, act as counterparty
- > Check the Corporate Action Requirements for scenarios
- > Provide feedback to ASX. That will help us improve the scenarios



Next working group

- > Technical Accreditation Guide
- > Application Accreditation Checklist
- > Messaging Accreditation Time-line
- > Exemption Process



Q&A



Forward Schedule



Next steps

Review and feedback:

- > Slides and Q&A will be published on the CHESS Replacement webpage
- > Provide feedback by contacting CHESSReplacement@asx.com.au use "SPR WG" as the subject heading

Next Software Provider Readiness Working Group meeting:

> Date: Jan 19 2022

Forward Schedule

- > ITE1 Update
- > Registration Details update
- > Connectivity Accreditation overview
- > CHESS UI demonstration
- > Member topics TBC



Thank you.





Disclaimer

This document provides general information only. ASX Limited (ABN 98 008 624 691) and its related bodies corporate ("ASX") makes no representation or warranty with respect to the accuracy, reliability or completeness of the information. To the extent permitted by law, ASX and its employees, officers and contractors shall not be liable for any loss or damage arising in any way (including by way of negligence) from or in connection with any information provided or omitted or from anyone acting or refraining to act in reliance on this information.

© 2021 ASX Limited ABN 98 008 624 691

