Minutes

ISO 20022 Technical Committee Meeting

Date	Tuesday, 23 July 2019	Time	3.00pm – 5.00pm
Location	ASX Offices – Level 1, 20 Bridge Street, Sydney and via webinar		

1. Welcome, Agenda

2. Minutes from last meeting, open actions

3. Matters for Consideration (Business and Technical Matters)

    a) Focus Group update – Corporate actions

    b) Review of member feedback on published 'to-be' messages

    c) Takeover and buyback

    d) Collateral creation

    e) 'To-be' messages for review

4. Standing agenda items

    a) CHESS Replacement project update by ASX

    b) ISO 20022 project update by ASX

    c) Update from Business Committee

5. Next meeting - Tuesday 27 August 2019 - Sydney

Technical Committee Members

Company	Name	Job Title	Apologies
Advanced Share Registry Limited	Frances Sumich	Accounts Manager	
Australian Payments Network Limited	Andy White	Chief Executive Officer	Apology
Australian Payments Network Limited	Paul Creswick	Security Standards Manager	
Bank of America Merrill Lynch	Andree Hindmarsh	Head of GMOT Australia	
Bank of America Merrill Lynch	Jimmie Alam		
Bell Potter Securities	Dean Surkitt	Managing Director Retail	
BNP Paribas Securities	Penelope Stafford	Manager Settlements	
BNP Paribas Securities	Wayne Murphy	Project Manager	
Boardroom Limited	Tony Robinson	Senior Software Engineer	
Boardroom Limited	Michael Mullins	CIO	
Broadridge (Australia)	Manoj Mathew	Business Analyst	
Broadridge (Australia)	Mabel Chow	Development and Support Manager	
Broadridge (Australia)	Tomas Kliman	Senior Project Manager	
Broadridge (Australia)	James Marsden	APAC Business Development & Strategy	
Broadridge (Australia)	Andy King	Product Specialist	
Broadridge (Australia)	Anil Wali	Product Specialist	
Broadridge (Australia)	Alok Ranjan	Technology Specialist	
Broadridge (Australia)	Beverley Chatterton	Senior Business Analyst	
Broadridge (Australia)	Richard Widjaya		
CBA Equities	Carolyn Webb	Test Manager	
CBA Equities	Ben Lowe	Manager Settlements	
Chi-X Australia	Mike Aikins	Head of Solution Development	
Chi-X Australia	Suketu Adhvaryu	Senior Solution Architect	
Citicorp	Andrew Gibson	Director – Head of Direct Custody and Clearing Australia & NZ	
Citicorp	Brett Dennis	Head of Operations – Party Clearing	
Citicorp	Lyall Herron		

Company	Name	Job Title	Apologies
Citicorp	Janice O'Brien	Markets & Securities Services Technology	
Citicorp	Matthew Warner		
Citicorp	Ashok Kumar Balusa		
Citicorp	Glenn Pahilan		
Citicorp	Stephen Rylands	Product Manager	
Citicorp	Pradeep Pandian		
CMC Markets Stockbroking	Nikola Vanstan	Change Manager	
Computershare	Paul Walton	Senior Manager, Corporate Actions & New Business Development – Investor Services	
Computershare	Leanne Bailey	Senior Business Analyst Product & Innovation	
Computershare	Laik Tan		
Computershare	Carl Christensen	Senior Project Manager	
Computershare	Nicki Priem	Projects Manager, Technology Services	
Deutsche Securities	Kevin Novini		
Digital Asset	Fil Mackay	Senior Product Architect	
Digital Asset	Daniel Begley	Business Development & Strategic Partner Director	
FinClear Technology	Craig Gray	Product Manager – Australia and NZ	
FinClear Technology	Nikki Gleisner	Account Manager	
FinClear Technology	Allan Morris		
FinClear Technology	Craig Day		
FinClear Technology	Ravinder Jabbal		
GBST	Sue Schafer	Product Owner	
GBST	Khanh Le	Systems Architect	
GBST	Valter Di Girolamo	Senior Business Analyst	
Goldman Sachs	Josh Rice		
Goldman Sachs	Nidhi Luthra		
Goldman Sachs	Kenichi Shirasuna		
Goldman Sachs	Calvin Lo		

Company	Name	Job Title	Apologies
HSBC Securities Services	Gregory Wilkin	Head of HSBC Operations	
HSBC Securities Services	Salih Kulic	Manager Custody	
HSBC Bank Australia Limited	Michael Macintosh	Senior Client Account Manager, Global Liquidity and Cash Management	
HSBC Bank Australia Limited	Anna Fratini	Senior Product Manager – High Value Payments, Clearing and Financial Institutions,	
HSBC Bank Australia Limited	Phyllis Yeung	Senior Analyst	
HSBC	Herman Wong	Manager, Change Management & Delivery	
HSBC	Edmond Chan	Senior IT Development Manager	
HSBC	Cherrie Xu	Head of IT Securities Service	
HSBC	Asri Asat	Optimisation Manager, Securities Service	
HSBC	Chang Gao	Business Consultant	
JP Morgan	Ed Lawson	Settlements Manager	
JP Morgan	Danny Ng	Middle and Back office AD Manager	
JP Morgan	Scott Oakland	Direct Custody Product Manager Australia	
JP Morgan	Ned Miglez		
JP Morgan	Daniel Smith	VP, Network Management	
JP Morgan	Lesley Henderson	Technology Product team	
Link Group	Ian Batterham	Business Applications Architect	
Link Group	Stephen Dear	Project Manager	
Macquarie Group	Paul Bragg	Senior Manager Equities Clearing ANZ	Apology
Macquarie Group	Merrilyn Auton	Manager Operations	
Morgans Financial	Matt Neaubauer	Team Leader, Service Management Team	
Morgans Financial	Ed Strike	IT Manager	
Morgan Stanley	Dorothy Wilson	Executive Director, Morgan Stanley Wealth Management, ISG Technology	
Morgan Stanley	Kirsty Venters	VP, Prime Brkrg Funding & Fin Tech	
Morgan Stanley	Oscar Dela Cruz		
Morgan Stanley	Andrew Fielder		

Company	Name	Job Title	Apologies
Morgan Stanley	Gordon Davies	VP/Firmwide Ops	
Morgan Stanley	Andrew Sime		
Morgan Stanley	Emily Krezlewski	Operations	
NAB Asset Management	Suresh Chinnappa	Senior Manager ASO Process Enhancement	Apology
NAB Asset Management	Mark Zahorjanski	Lead Overnight Custody Support	
National Stock Exchange	Yemi Oluwi	Head of Technology	
Nomura Research Institute	John Ryan	Senior Consultant	
Nomura Research Institute	Ashish Jha		
Nomura Research Institute	Sayantan Majumdar	Chief Manager, Business Solutions	
Nomura Research Institute	Diptesh Chakraborty	Solution Architect	
Northern Trust	Yen Pan Chung	Senior BA, Market Advocacy and Innovation Research	
Northern Trust	Pawel Kalbrun		
Northern Trust	Tracey Murphy		
Securitease	Anton Smith	Director	
Securitease	Chris Werry	Business Analyst	
Securitease	Angela Losurdo	Business Systems Analyst	
Share Investing	tbc		
SWIFT Standards	Nicole Jolliffe	Senior APAC Standards consultant	
Sydney Stock Exchange	Leo Zhang	Manager – Market Control	
Sydney Stock Exchange	Omar Obol	Market Control Officer	
Sydney Stock Exchange	Antony Tolfts	Listing Director	
Third Party Platform	Lindsay Grugeon		
UBS	Phillip Drury	Phillip Drury, Executive Director, Equities IT	
UBS	Neil Martin	IT – Project Management	
Wealthhub Securities	James Channon	Manager, Capital Markets Trading	
Wealthhub Securities	Alona Ma	Associate – Broking Operations Specialist	
Wealthhub Securities	Sandeep Samireddy Gari		

ASX Management

Name	Job Title	Apologies
Tim Hogben	Chief Operating Officer (Chair of the Technical Committee)	
Gary Hobourn	Senior Economic Analyst, Regulatory and Public Policy	Apology
Con Korkofigas	Senior Legal Counsel and Senior Manager	Apology
Tegan Jones	Senior Legal Counsel	
Rohan Cush	Senior Legal Counsel	
Adriana Wild Taylor	Legal Counsel	Apology
Cliff Richards	Executive General Manager, Equity Post Trade Services	Apology
Katie McDermott	General Manager, Equity Post Trade Services	
Karen Webb	Senior Manager, Equity Post Trade Services	
Russell Eyre	Enterprise Architect	Apology
Anne-Marie Fisher-Taylor	Project Subject Specialist	
Richard Sherbinski	Project Subject Specialist	
Fraser Moodie	Manager, Integration and Connectivity, CHESS Replacement	Apology
Frederik Van den Weghe	Senior Manager, Business Analysis	Apology
Chris Boyes	Lead Business Analyst, Equity Post Trade	
Priscilla Ferri de Barros	Lead Business Analyst, Equity Post Trade	
Sachin Zope	Senior Business Analyst, Equity Post Trade	

The meeting commenced at 3.00pm.

AGENDA ITEM 1: AGENDA OVERVIEW

The Chair welcomed Technical Committee members to the meeting, including members attending by webinar.

The Chair outlined the Agenda for the meeting, referring to the presentation slides prepared by ASX.

AGENDA ITEM 2: MINUTES FROM LAST MEETING, OPEN ACTIONS

The Chair noted that the minutes from the last meeting held on 25 June 2019 had been finalised, with no comments received other than one attendee pointing out that their name was omitted from the attendee list, which was corrected. The minutes had been distributed and published on the CHESS Replacement web page.

The Chair noted the outstanding actions from the last meeting as outlined on slide numbers 5 and 6 of the ASX presentation.

Action item 20 was for ASX to provide a proposed plan for the remaining training webinars. The Chair noted that ASX would be guided by committee members as to the appropriate timing and content, and there had been no recent feedback on this item. **This item remains on hold**.

Action item 62 part 3) was for ASX to consider the visibility of holding locks to issuers on an intra-day basis. The General Manager, Equity Post Trade advised that ASX was still working through its analysis, and proposed an update be provided at the next meeting. **Part 3) of this item remains open**.

Action item 84 noted that ASX will not provide backwards compatibility, but will evaluate how to provide better transparency on substantive changes. At the previous meeting ASX requested feedback from members on commonly used fields they believe are relevant and substantive for ASX to consider how it could provide better visibility on these standard field length and other characteristics, and the General Manager, Equity Post Trade reiterated this sentiment at the meeting. The Chair advised that ASX had not received any feedback. A member noted they were still looking into the unit quantity change, and were seeking greater visibility from ASX on why it was such a substantive change. The member also had key questions around whether there would be decimal values, noting these questions had been raised in feedback prior to the last meeting. The Lead Business Analyst, Equity Post Trade noted that ASX would publish in its next feedback drop information on quantity, price and amount, and the market could advise if there were any additional fields considered important to include in the technical manual. The Chair suggested this action be updated to include the detail already requested by the member, and **this item remain open** until the next meeting.

Action item 85 was for ASX to consider inclusion of investor identity (HIN) to allow a validation pre change of controlling participant transfer. At the previous meeting the Chair requested members provide specific feedback regarding mismatches, including statistics on the frequency and where mismatches occur and pose a risk – and otherwise ASX would leave the solution as is. The Chair advised that ASX did not receive any feedback, but proposed the action remain open for one additional week to enable members the chance to review and revert. **This item remains open for one week from the meeting date**.

The General Manager, Equity Post Trade added that whilst ASX endeavoured to respond and track all correspondence thoroughly, if any members believed they had outstanding queries or questions to ASX it would be appreciated if they could bring this to ASX's attention.

Action item 86 was for members who are, or act for, payment providers to ensure awareness of the changes to payment provider related messages, and for ASX to consider additional engagement activities with payment providers to ensure awareness. The General Manager, Equity Post Trade acknowledged that a large majority of payment provider organisations are represented in this committee, as well as all payment provider vendors, and asked members to liaise internally within their organisations to ensure the information was reaching their (if applicable) payment provider business. ASX also regularly engaged with AusPayNet, which has representation from all payment providers, and ASX

would table the proposed changes at the next ESPPSC meeting to make sure all payment providers understand the proposed changes, including those that use CHESS PC or CHESS Access. **This item was closed.**

Action item 87 was for ASX to consider whether it could expand on the EIS messages contained within each of the business areas in the ISO 20022 Stream – Message Status table. ASX was to also consider whether it could provide visibility on the draft messages under review with T2S Evaluation team, as relevant to CHESS Replacement. The Senior Manager, Equity Post Trade Services stated that in April 2018 ASX presented to this committee its final 'as-is' mapping for EIS to ISO 20022, as well as publishing in MyStandards an 'as-is' collection, based on a scope at that time of approximately 453 messages. These documents were recommended as the key reference material for the first part of this action. The Senior Manager, Equity Post Trade Services clarified the information contained in the table on ASX presentation slide number 40 - noting that the scope had been reduced from 453 to 420 EIS messages. For business areas in the table where there were no ISO 20022 messages published to date (for example, reporting), the information provided in April 2018 would be accurate. Where ASX had progressed ISO 20022 messages in that business area, messages were being re-assigned based on the final ISO mapping (i.e. there is scope for change as the ISO 20022 messages are developed). Given this process ASX confirmed it was unable to provide a final 'to-be' view at this stage. The Senior Manager confirmed as part of each drop of technical documentation, ASX also published an updated Cross Reference Guide, from which a member could deduce which business area the relevant message(s) sat. Regarding the second part of the action, the Senior Manager, Equity Post Trade Services noted that in April 2018 ASX had indicated around 25 draft T2S messages it might be interested in, and that this number had decreased since then to approximately 4 messages (2 of which had been finalised by T2S, 2 remaining draft). ASX committed to communicating further details of the draft messages to members. **(Matters Arising 1 – Action Item 88)**, and **action item 87 was closed**.

AGENDA ITEM 3: MATTERS FOR CONSIDERATION

a)   Focus Group update – Corporate actions

The Lead Business Analyst, Equity Post Trade provided an overview of the 9 July 2019 Focus Group meeting on corporate actions. Referring to ASX presentation slide number 8, the Lead Business Analyst outlined ASX's proposed solution design for electronic acceptance and payment for entitlement offers, including workflow, as well as holding adjustments. ASX had received a large amount of feedback from focus group members by the due date of 19 July 2019, and was in the process of analysing that feedback. Key themes that emerged during the focus group meeting on electronic acceptance and payment for entitlement offers included: handling of oversubscriptions; treatment of transactions sent outside of operating hours for both the clearing & settlement platform and RTGS; necessary participation models; and whether any additional corporate actions could use the same process, such as share purchase plans. The next meeting would be held on 13 August 2019 on a continuation of corporate actions related requirements, and ASX also intended to present a revised solution design that incorporated some of the feedback it had received.

A member noted ASX presentation slide number 8 did not mention RTGS, and asked how many citizens and service providers look after RTGS payments in CHESS currently, and noted that ASX had previously flagged RTGS as being decommissioned for CHESS Replacement. The General Manager, Equity Post Trade Services confirmed that RTGS as described in the current service was being phased out, but noted ASX was leveraging the RTGS infrastructure (namely connectivity to RITS) to facilitate non-batch payments. The Chair noted ASX had consulted with the RBA and payment providers, had given consideration to alternatives including New Payments Platform (NPP) and Austraclear, and made the considered decision to leverage the existing RTGS infrastructure.

b)   Review of member feedback on published 'to-be' messages

Referring to ASX presentation slide number 9, the Senior Business Analyst, Equity Post Trade provided an overview of feedback received regarding the messages presented at the 25 June 2019 meeting covering batch settlement. Feedback on 9 guidelines, in the form of 24 comments, was received, and ASX would publish the member comments and its feedback on those comments following this meeting. As a result of the comments, schema changes would be published for the sett_119 (change mapping of the account owner transaction id) and sett_136 (a change to the transaction type

– from NONREF to the ISO code to indicate movement of stock) messages. ASX was also reviewing feedback questioning the ISO base message used for some messages.

A member noted that the document ASX re-published each month showing feedback and ASX's responses was unwieldy and difficult to read, and asked if anything could be done to make it more user friendly. The Senior Manager, Equity Post Trade Services noted the document was currently published as a PDF, and would look into whether ASX could publish the document as an Excel file on its website, or disseminate the Excel file by email to the committee. **(Matters Arising 2 – Action Item 89).**

c) Takeover and buyback

Referring to ASX presentation slide number 10, the Lead Business Analyst, Equity Post Trade provided an overview of takeover and buyback, highlighting key changes in the new system. Regarding the change of the takeover code to a concatenation of corporate action event ID plus option number plus option type, a member asked how large ASX expected the field to be. The Lead Business Analyst responded that corporate action event ID is maximum 9 digits, the option number is 3 digits and the option type is a 4 character code. The member asked if all three fields needed to live in the same corporate action to be useable (i.e. they are conditional on the right order). The member clarified their line of questioning – takeover code today was simple, it was the issuer code plus something (possibly numerical) to represent what you are accepting into. The member suggested that the concatenation of the three fields (all needing the correct values) proposed by ASX might become prohibitively complicated, particularly in the case of buy-backs. The Lead Business Analyst confirmed that the corporate action event ID was published today via ReferencePoint (i.e. commonly available), and the member noted they did not believe it was published in the E34 ReferencePoint file. Regarding the option number, the member sought clarification that the field was always a 3 digit numeric code, which the Lead Business Analyst confirmed was correct. The member noted that in takeover offers they regularly used something in the space of the 3 digit takeover code area to clearly represent what the investor is giving them, and that they would lose this flexibility and ability to verify under ASX's proposed solution. The Lead Business Analyst responded that the 3 digit option number tied directly back to the corporate action published to the market, where it was explained in detail what the option related to. The member asked specifically which ReferencePoint document takeover offers are presented in, and another member noted their organisation had similar questions. The Chair suggested ASX would investigate and provide a response to the committee **(Matters Arising 3 – Action Item 90)**, and the Lead Business Analyst also suggested this could be discussed at the next Focus Group meeting. Another member supported the suggestion to discuss at the next Focus Group meeting, and noted their support for ASX's proposed concatenation solution which aligned to custodians workflows, which they suggested would also be a desirable method of instructing for other corporate actions and warranted further discussion.

Another member noted that takeovers were not disseminated via E34 ReferencePoint file today, and asked whether there would be a change to disseminate the information within the ReferencePoint file. The Chair confirmed that ASX would investigate this question in conjunction with the above action item 90.

Referring to ASX presentation slide numbers 11 and 12, the Senior Business Analyst, Equity Post Trade stepped through the 'to-be' message consolidation table for takeover and buyback. 22 EIS messages were consolidated to 7 ISO 20022 messages (4 new messages and 3 messages which had already been presented to the committee).

Referring to ASX presentation slide numbers 13 to 17, the Senior Business Analyst explained how the seven ISO 20022 messages were used in a variety of business flows, including participant initiated bid election, participant initiated bid reversal (noting the term reversal will mean cancellation in the new system), offeror initiated bid election, offeror initiated bid reversal and corporate action related transfer, and bid finalisation.

Regarding the cancellation status advice, a member asked why there were two different ISO message types used on ASX presentation slide numbers 13 and 14, namely the seev_034 and seev_041. The Senior Business Analyst confirmed that the flow on ASX presentation slide number 13 was the election request, and the seev_034 is the status advice of the election request. The flow on ASX presentation slide number 14 was the cancellation request, and the seev_041 is the status advice of the cancellation request.

A member sought an update on a business requirement raised in the 2017 consultation process being progressed as a Business-As-Usual matter (as opposed to as part of the CHESS Replacement project), regarding enforcement of turnaround times to do the authorisation at the participant side, noting their understanding that there was perhaps a current rule, but it was not being enforced. The General Manager, Equity Post Trade advised that ASX would take this question away and provide an update at the next meeting (**Matters Arising 4 – Action Item 91**). The Chair sought clarification of what happened from a liability perspective when a registry received a rejection, and the member noted their understanding that the party believes they have accepted the units but ultimately the acceptance does not go through. Another member added that from a business perspective it would persist, and it then depended on the instructions from the bidder. Separately, the member noted that ASIC had views on the status of an acceptance which is proposed by the share registry, which is different to the way CHESS records a blocked sub-position. The Chair acknowledged this feedback.

Regarding the bid finalisation flow shown on ASX presentation slide number 17, a member queried use of the pldg_303_semt_015 message for confirmation of the bid finalisation trigger, and asked whether a corporate actions movement message would be more appropriate (such as seev_036). The Senior Business Analyst acknowledged that the difficulty with the message was that it needed to convey the movement of units from blocked to available sub-position, and the pldg_303_semt_015 message had all necessary elements. The Senior Business Analyst also agreed to look into use of the seev_036 message (**Matters Arising 5 – Action Item 92**), and it was requested the member also provide this feedback directly via comments in MyStandards against the message.

Referring to ASX presentation slide numbers 18 to 26, the Senior Business Analyst stepped through specific details of the elements used in the four new messages (evnt_742, evnt_743, evnt_745 and evnt_746) as well as the corporate action related transfer and confirmation (hold_229 and hold_230).

Regarding the element 'Financial Instrument Identification' in the evnt_742_seev_033 message, a member clarified whether this could be populated with Security Code or ISIN Code, which the Senior Business Analyst confirmed was correct (both could be used).

Another member queried the Event Type Code (BIDS = Buyback and TEND = Takeover), and noted that in Australian law a bid is a takeover offer, and a tender is something more akin to a buyback offer. The Senior Business Analyst noted that ASX was following ISO standards in the use of the codes and believes what it had proposed was the best fit. The Lead Business Analyst, Equity Post Trade added that the event type codes had been agreed as part of the Corporate Actions Straight Through Processing (STP) Working Group. The member was not aware of this, and the Senior Manager, Equity Post Trade Services confirmed the work had been performed prior to that member joining that Working Group, and was able to share the full list of codes with the member offline. Another member noted their agreement with ASX's proposed event type codes. A member suggested the crux of the line of questioning was whether it would be legal to use codes which contradict Australian law. The General Manager, Equity Post Trade Services confirmed that ASX was not contemplating changing any terms in Australia law on this matter, rather ASX was looking to provide complete clarification to all users of how the terms are used within the ISO 20022 messages and what they mean in those messages – a completely separate matter to the legal meaning of the terms used. The General Manager, Equity Post Trade Services invited the member who raised this point about term usage inconsistent with Australian law to engage bilaterally further on this point outside of the committee.

Regarding the element 'Accepted For Further Processing' in the evnt_743_seev_034 message, a member clarified whether it was standard ISO practice to use AUTH for something that was pending, or whether there was another code which would make more sense. The Senior Business Analyst, Equity Post Trade confirmed they could double check whether any other codes would be applicable, and asked the member to also provide this feedback in MyStandards on the message. (**Matters Arising 6 – Action Item 93**).

d)   **Collateral creation**

Referring to ASX presentation slide number 27, the Lead Business Analyst, Equity Post Trade provided an overview of collateral creation to cover margin obligations for Exchange Traded Options (ETOs) positions and Cash Market Margins

(CMM), highlighting key changes in the new system. The topics of collateral removal and reduction would be covered in the next meeting.

Referring to ASX presentation slide number 28, the Senior Business Analyst, Equity Post Trade stepped through the 'to-be' message consolidation table for collateral creation. 16 EIS messages were consolidated to 4 ISO 20022 messages - 3 new messages and 1 message which had already been presented to the committee.

Referring to ASX presentation slide numbers 29 and 30, the Senior Business Analyst explained how the ISO 20022 messages were used in the flow for collateral creation for both ETO and CMM. The Senior Business Analyst then stepped through some specific elements of the pldg_301, pldg_302, pldg_303 messages, referring to ASX presentation slide numbers 31 to 35.

The Senior Business Analyst noted that the same Account Owner Transaction id would be present in all messages through the lifecycle for tracking.

Regarding the element 'Securities Sub Balance Identification' on the pldg_303_semt_015 message, a member clarified whether this would be an ASX proprietary code or an ISO code. The Senior Business Analyst confirmed it would be an ASX proprietary code, because the element would be re-used across multiple functions.

e)   'To-be' messages for review

The Senior Business Analyst confirmed that ASX would publish all the messages presented at the meeting in MyStandards, as well as samples and code lists, for member feedback by 6 August 2019.

AGENDA ITEM 4: STANDING AGENDA ITEMS

a)   CHESS Replacement project update by ASX

The General Manager, Equity Post Trade Services reported that the project continued on track. There was a lot of activity in the Customer Development Environment (CDE), and ASX had received over 20 order forms to date. ASX had proactively engaged with share registries who would be able to connect to CDE from the next drop of code. Almost all clearing and settlement vendors were connected and actively testing in CDE. In terms of the functionality in CDE, it included unilateral and bilateral demand transfers; bilateral settlement instructions; settlement locks; payment facilities; trade capture; trade registration and novation. At present ASX had published the forward release plan out to CDE drop 5, and in response to stakeholder feedback ASX would soon be updating the forward release plan to include all 7 CDE drops (noting there is some scope for change, given the iterative feedback process), to provide complete visibility.

ASX's technology partner Digital Asset continued to announce the use of its Digital Asset Modelling Language (DAML) on other distributed ledgers, including Hyperledger Fabric and R3's Corda blockchain platforms, in addition to earlier announcements regarding integration with VMWare Blockchain and Hyperledger Sawtooth. Digital Asset had also announced that they could do a non Distributed Ledger Technology (DLT) database, Aurora cloud storage engine on Amazon Web Services. This provided flexibility and choice for customers.

The third tranche of technical documentation had been released, and covered transfers, conversions and SRN enquiry. ASX had also published three documents summarising feedback received from the Focus Groups and ISO 20022 Technical Committee on the topics of: standardised registration details; transfers, conversions and SRN enquiry; and demand and settlement instructions. The fourth tranche of technical documentation was on-track for release at the end of July 2019, and would cover batch settlement; encumbrance on HIN for the purpose of settlement; and corporate actions framework. Registered users would receive an email notifying them of the release of the documentation.

A member noted that some of the feedback they had raised was not captured in ASX's summary of feedback documents, and queried whether they needed to re-submit their feedback. The General Manager, Equity Post Trade Services acknowledged that the documents provided a consolidated and summarised view of feedback (it was not the intention

to provide a complete list of all feedback received), however encouraged the member to contact ASX directly to discuss their specific concern. The member clarified one point of concern was the omission of their feedback on the matching criteria for transfers and conversions in the document, noting that their organisation had flagged the risks this 100% match presents to participants. Another point of concern was a legal question they had raised around whether the change would transfer the responsibility for checking criteria to the issuer, for which the member noted they had not received a response from ASX. The General Manager, Equity Post Trade Services confirmed that ASX would pick this matter up offline with the member.

The General Manager, Equity Post Trade Services noted that ASX had released its second monthly project newsletter on 18 July 2019. Feedback from members on how to make the newsletter as helpful and relevant as possible was welcomed.

On the stakeholder engagement front, the Focus Group on 9 July 2019 on corporate actions related topics had already been discussed. The latest Connectivity and Integration working group meetings were held on 3 July 2019 and 11 July 2019, on AMQP design patterns. The next Connectivity and Integration working group meeting was scheduled for 7 August 2019 on the topic of CDE drop 3.

b) ISO 20022 project update by ASX

The Senior Manager, Equity Post Trade Services provided an update on the ISO 20022 project. Topics in progress for 'to-be' mapping included settlement, transfer of novated equity transactions between clearing participants (give-up and take-up), holding adjustment, corporate actions, mFund, reports, collateral, and takeover and buyback. Four new messages had been drafted by SWIFT for give-up and take-up, with ASX review in progress prior to sharing with Technical Committee members.

On the global ISO 20022 engagement front, ASX had continued to join the monthly meetings of the ISO 20022 Securities Standards Evaluation Group (SEG), and at the next meeting scheduled for end July 2019 an update on the ISO 20022 payments migration was expected. The next set of messages to be reviewed by the T2S Evaluation Team in August was the intra balance messages, and ASX had begun to get involved in an additional Evaluation team on Investment Funds which was relevant to mFund.

Regarding ASX's Business Application Header (BAH) request, the SWIFT Standards Consultant confirmed that an update would be provided soon.

The Senior Manager, Equity Post Trade Services noted ASX's business justification for 13 new messages had been approved and an additional justification was to be prepared to cover the new give-up and take-up messages.

The Senior Manager, Equity Post Trade Services referred to ASX presentation slide number 40, which demonstrated the progress with in scope EIS 'as-is' messages (a total of 420 messages) covered in 'to-be' drops (97 messages to date) as well as additional drafts shared with this committee (an additional 9 messages). The table would be updated again for the next meeting to include the messages that would be published the next day, as well as to capture the release of technical documentation at the end of the month.

c) Update from Business Committee

The Chair advised that the last Business Committee meeting was held on 18 July 2019; a constructive meeting with an above average amount of discussion and questions throughout. New members to that committee included a representative from each of the Governance Institute of Australia, Australasian Investor Relations Association, Australian Shareholders' Association, Automic Registry Services and Computershare.

The Chair provided a summary of the agenda for the meeting, which included an update on the operational performance of cash market clearing and settlement services for the period up to the end of the financial year - 100% uptime, an increase of around 5% in volumes across the market, and discussion on the recent Telstra outage.

The Chair advised that the meeting received an update on the objectives and progress with ASX's Corporate Actions Straight Through Processing (STP) Phase 2 project. The meeting then received a substantial update on the CHESS Replacement project. The Chair noted that points of discussion included many good questions around dates for code drops, the start of Industry Wide Testing and a discussion around pricing and fee information.

The final matter on the agenda included a discussion of the annual external Regulatory Expectations Audit.

AGENDA ITEM 5: NEXT MEETING

The Chair thanked members for their contributions to the meeting and noted the actions from the meeting.

The next meeting would be held on 27 August 2019 in Sydney, with the agenda to be confirmed.

Before closing, a member asked about the SWIFT portal where members could test messages, and whether this was validating against ASX's requirements or SWIFT's requirements. The member had experienced issues with messages being validated on the online SWIFT portal which do not comply with ASX's requirements (particularly around unilateral settlements and unilateral demand), which contradicted their understanding of what was supposed to occur. The SWIFT Standards Consultant confirmed it would be validating against ASX's requirements. The member confirmed that they would email ASX to follow this matter up.

The meeting closed at 4.50 pm.

Signed as a correct record of the meeting.

_____   20 . 8 . 2019.
Technical Committee Chair   _____
                                                                             Date

ACTION ITEMS

No.	Meeting Date	Open Action Items	Owner	Due Date
20	2 May 2017	Provide details of a proposed plan including potential topics for the remaining training webinars for feedback, standard training provided by SWIFT, and including identification of business vs. technical topics.	ASX	On hold
62	4 Sep 2018	ASX to review 1. the intended timing for housekeeping of unmatched messages, any standardisation opportunities for timing. **(this item was closed, given related action item #79 was also closed)** 2. whether settlement requests could be future dated. **(this item was closed – ASX response that future dating would not be supported)** 3. ASX would also consider the visibility of holding locks to issuers on an intra-day basis.	ASX	27 Aug 2019
84	28 May 2019	ASX will not provide backward compatibility, but will evaluate how to provide better transparency on substantive changes. **25 Jun 2019: Members to provide feedback on commonly used fields they believe are relevant and substantive for ASX to consider how it could provide better visibility on these standard field length and other characteristics.** **23 Jul 2019: Additionally, ASX to provide clarity on the reason behind the unit quantity field change, and advise whether it would include decimal values.**	ASX / **Members**	27 Aug 2019
85	28 May 2019	ASX to consider inclusion of investor identity (HIN) to allow a validation pre change of controlling participant transfer. **25 Jun 2019: Members to provide specific feedback regarding mismatches, including statistics on the frequency and where mismatches occur and pose a risk.**	ASX / **Members**	30 Jul 2019
88	23 Jul 2019	ASX to provide details of the draft T2S messages it intended to use.	ASX	27 Aug 2019
89	23 Jul 2019	ASX to consider how it can make the document it publishes capturing member feedback via MyStandards and ASX's responses more user-friendly, including to investigate whether it could be published or emailed as an excel file instead of a PDF.	ASX	27 Aug 2019
90	23 Jul 2019	ASX to confirm within the Reference point products that include takeover offer information.	ASX	27 Aug 2019
91	23 Jul 2019	ASX to provide an update on the status of work being progressed as Business-As-Usual regarding enforcement of turnaround times on the participant side for takeover acceptances.	ASX	27 Aug 2019
92	23 Jul 2019	ASX to consider whether a seev_036 base message could be used in place of pldg_303_semt_015 for confirmation of the bid finalisation trigger.	ASX	27 Aug 2019

No.	Meeting Date	Open Action Items	Owner	Due Date
93	23 Jul 2019	ASX to consider whether the field 'Accepted for Further Processing' in evnt_743_seev_043 should use AUTH for pending, or whether another code would be better suited.	ASX	27 Aug 2019

No.	Meeting Date	Closed Action Items	Owner	Due Date
1	13 Dec 2016	Amend the Charter to reflect that the Chair "will" (instead of "may") forward copies of the minutes to the Business Committee for endorsement. ASX to publish and distribute final Charter.	ASX	13 Dec 2016
2	13 Dec 2016	Provide members with information on how to access SWIFT MyStandards.	ASX	14 Mar 2017
3	13 Dec2016	Provide members with an overview of ISO 20022 training options.	ASX/SWIFT	7 Feb 2017
4	7 Feb 2017	Provide members with list of current scope of messages for detailed mapping during first half 2017.	ASX	14 Mar 2017
5	7 Feb 2017	Schedule training webinar for the attendance by members and seek and review feedback after the initial webinar.	ASX / SWIFT	14 Mar 2017
6	7 Feb 2017	Add link to relevant ISO 20022 information websites to the CHESS Replacement web page.	ASX	14 Mar 2017
7	7 Feb 2017	Provide more details on access to online education available at swift.com.	SWIFT	14 Mar 2017
8	7 Feb 2017	Provide members with the current list of Market Identification Codes (MICs)	ASX	14 Mar 2017
9	7 Feb 2017	Provide members with more information on the use of BIC vs. UIC as the party identification code.	ASX / SWIFT	14 Mar 2017
10	7 Feb 2017	Market Operators to advise the preferred MIC to be presented in trade related messages as the "Place of Trade".	ASX, Chi-X, NSX, SSX	6 Jun 2017
11	7 Feb 2017	ASX to conduct analysis on whether the identification of a financial instrument is a fixed value or true value of the proprietary code issuer.	ASX	14 Mar 2017
12	7 Feb 2017	Provide list of proposed code (i.e. condition or BOM) in ISO 20022 format (4 character) mapped against CHESS codes.	ASX	14 Mar 2017
13	7 Feb 2017	Add a general CHESS Replacement update to the standing agenda for meetings.	ASX	14 Mar 2017
14	7 Feb 2017	Check the next Technical Committee meeting date planned for March and advise members of any change.	ASX	14 Mar 2017
15	14 Mar 2017	Schedule future agenda item to discuss transition arrangements, including any changed values (e.g. party identifiers).	ASX	2 May 2017
16	14 Mar 2017	Create register of matters that may impact upstream, downstream systems or processes, including codes, identifiers and ISO 15022.	ASX	2 May 2017
18	14 Mar 2017	ASX to draft procedures for change requests to usage guidelines and code lists.	ASX	2 May 2017
21	2 May 2017	Provide a list of standard training topics to share. Noted this action item is combined with action item 20.	SWIFT	6 Jun 2017
22	2 May 2017	Provide members with a copy of the presentation material from the trial training webinar held on 27 April 2017.	ASX	6 Jun 2017

No.	Meeting Date	Closed Action Items	Owner	Due Date
24	2 May 2017	Resolve issue with Comments function on MyStandards and advise members when fixed.	ASX/SWIFT	6 Jun 2017
25	2 May 2017	Provide samples of the proposed consolidation and rationalisation scenarios for EIS 138 and EIS 134.	ASX	6 Jun 2017
26	2 May 2017	Provide proposal to broaden the engagement and method to seek feedback on key concepts such as consolidation/rationalisation.	ASX	6 Jun 2017
27	6 Jun 2017	Publish list of comments received on MyStandards with ASX responses regularly, around the time of each meeting.	ASX	18 Jul 2017
28	6 Jun 2017	Re-publish ISO 20022 equivalent of EIS 138 with corrected default value INFO for issuer of financial instrument code.	ASX	18 Jul 2017
29	6 Jun 2017	Review EIS 102 mapped equivalent message with Scott Oakland, JPM – optional inclusion of HIN.	ASX	18 Jul 2017
33	6 Jun 2017	Provide a presentation of CHESS EIS mapping to ISO 20022, and typical ISO 20022 flows to assist committee discussion of key topics (e.g. rationalisation, consolidation, descope of certain processes like allegement modify). ASX would also seek input from key members about the best process going forward.	ASX	18 Jul 2017
34	6 Jun 2017	Add the overview of transaction ids to the July meeting agenda.	ASX	18 Jul 2017
31	6 Jun 2017	Sample consolidated (EIS 138) and rationalised (EIS 138 and 134) messages published in the MyStandards community – in a separate collection "Sample Message Review". Members to review and provide further comments via MyStandards, email.	Members	22 Aug 2017
32	6 Jun 2017	For Cancel/Correct & Modify, ASX recommendation revised to only do cancel/correct for bilateral modifications (and not allow modify – removal of EIS 121). ASX to contact users of EIS 121, and action remains open until all members confirmed their agreement with the recommendation.	ASX, Members	22 Aug 2017
30	6 Jun 2017	Obtain international usage comparisons on the use of UTC time format. Members to provide input from international offices where possible.	ASX, members	22 Aug 2017
35	18 Jul 2017	ASX to publish all final draft usage guidelines in MyStandards and highlight to members those usage guidelines that need their review. SWIFT to advise if a flag is available in MyStandards to indicate particular review items.	ASX, SWIFT	22 Aug 2017
36	18 Jul 2017	Provide members with details of feature in MyStandards to affirm a comment.	ASX, SWIFT	22 Aug 2017
17	14 Mar 2017	Provide further information on party identification for issuers – UIC or BIC and proposed process.	ASX	10 Oct 2017
37	18 Jul 2017	Provide comparisons to other market implementations of transaction ids.	ASX, SWIFT	22 Aug 2017

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38	22 Aug 2017	Review consistency of the application of UTC date, date and time, zulu format, and add item to upstream/downstream considerations log re the use of UTC for Trade Date confirmations from AMOs (with flow on impact to EIS 164 equivalent).	ASX	10 Oct 2017
40	22 Aug 2017	Provide list of CHESS EIS messages in scope for detailed mapping during 2nd half of 2017, including identification of descoped messages.	ASX	10 Oct 2017
44	10 Oct 2017	ASX project team to consider effective housekeeping of rights that expire worthless – and whether this could be improved.	ASX	21 Nov 2017
45	10 Oct 2017	Review recommendations put to committee in Agenda item 6c) – approach to ISO best practice exceptions and provide feedback to ASX.	Members	21 Nov 2017
46	10 Oct 2017	Review recommendation put to committee in Agenda item 6d) – inclusion of unique event id in Market Infrastructure Tx id (MITI) field.	Members	21 Nov 2017
47	10 Oct 2017	Allow for future use of Party2+ identification in messages, and ensure discussion on same point at working group meetings re business requirement.	ASX	21 Nov 2017
19	2 May 2017	Provide sample of demonstration of comparison between ISO 20022 and ISO 15022 messages.	Scott Oakland, JPM	On hold
23	2 May 2017	Further review of the ASX CHESS demand reporting summary and responses to questions contained in that summary. ASX to continue review of reports and provide further candidates for descope at meetings.	Members / ASX	21 Nov 2017
39	22 Aug 2017	Chair to contact members seeking feedback on the approach of the Technical Committee, any suggestions to improve the process.	ASX	21 Nov 2017
41	22 Aug 2017	Conduct bilateral discussions with share registries and mailing houses regarding structuring of registration details and associated static data.	ASX	21 Nov 2017
42	22 Aug 2017	Conduct bilateral discussions with share registries regarding current holding balance changes associated with corporate actions and proposed withdrawal of EIS 421.	ASX	21 Nov 2017
43	10 Oct 2017	Provide a proposed governance method for Technical Committee input to and review of all matters tabled at the Standards Evaluation Group (SEG), including any matters raised by ASX on behalf of community.	ASX	21 Nov 2017
48	21 Nov 2017	Members to review information provided in agenda item 6d) and respond to the question – was there appetite for using xml in model 1b or 2a as presented or keep the mapping 1 to 1.	Members	6 Feb 2018

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49	6 Feb 2018	ASX to confirm additional 'as-is' usage guidelines that could be published in Q2 and members to provide expression of interest in reviewing this set.	ASX	17 Apr 2018
50	22 May 2018	Digital Asset to review the NDA regarding the DAML SDK and respond to questions around one way vs. two way.	DA	26 Jun 2018
52	22 May 2018	ASX to give consideration to how it would advise users of any change to the external code lists and report back to members.	ASX	31 Jul 2018
54	26 Jun 2018	Members to review and advise ASX of any feedback on the recommendation that Transaction Date Time (<TxDtTm>) in the sett_101 message is UTC.	Members	31 Jul 2018
55	31 Jul 2018	A member asked where change requests for SR2019 would be visible. The Senior Manager confirmed ASX would send information on where to find the information. The information is also published on MyStandards.	ASX	4 Sep 2018
53	22 May 2018	Members to answer 4 questions if they are considering using a BIC as their party identification: whether they would use a new or existing BIC, whether the BIC was connected or non-connected, whether it was a BIC8 or BIC11, and if that BIC would apply to all activity for that organisation or actor, or for multiple activities. Examples would be helpful.	Members / ASX	9 Oct 2018
56	31 Jul 2018	Provide members with more information on the Corporate Actions STP Phase 2 project.	ASX	9 Oct 2018
57	31 Jul 2018	Members to review the consideration to provide a complete set of settlement obligations (net broker, gross broker - per slide #12 from 31 July presentation) and advise feedback to ASX.	Members	9 Oct 2018
59	31 Jul 2018	Share registries to share findings from study of registration details at the 4 September meeting.	Share registries	9 Oct 2018
61	4 Sep 2018	ASX to ensure coverage of possible scenarios for locking in the requirements, particularly those that are participant driven for certain reasons.	ASX	9 Oct 2018
63	4 Sep 2018	Members to review ASX's recommendations regarding changes to the sett_101 as presented in Agenda item 6d) and provide feedback by 18 September 2018.	Members	18 Sep 2018
51	22 May 2018	ASX to consider how impacted stakeholders could be engaged on the standards for registration details prior to the next meeting.	ASX	27 Nov 2018
58	31 Jul 2018	ASX to publish proposed to be messages for updates to accounts – reda_023, reda_020, reda_021 for member review.	ASX	27 Nov 2018
60	4 Sep 2018	ASX to prepare and publish a consolidated list of all actions and outcomes from Technical Committee meetings, and update after each meeting going forward.	ASX	27 Nov 2018

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64	9 Oct 2018	ASX to advise Members the confirmed date for Technical Documentation release in December, and the associated webinar details.	ASX	27 Nov 2018
66	9 Oct 2018	Members to consider any specific topics regarding settlement, holding locks for inclusion in the agenda of the upcoming Focus group and advise ASX.	Members	27 Nov 2018
67	9 Oct 2018	ASX to review level of consolidation for Unilateral and Bilateral settlement instructions usage guidelines.	ASX	27 Nov 2018
68	27 Nov 2018	ASX to provide timeframe for when session with AMOS will be held, and provide sufficient notice to AMOs regarding the agenda and opportunity for AMOs to provide input on that agenda.	ASX	8 Feb 2019
69	27 Nov 2018	Members to provide feedback on principles for adoption of ISO 20022 per agenda item 6b.	Members	8 Feb 2019
71	8 Feb 2019	ASX to review SLAs and the timing of responses to queries submitted to both the CHESS Replacement and CSP Support mailboxes, including acknowledging questions where ASX may not currently have an answer.	ASX	26 Mar 2019
72	8 Feb 2019	ASX to consider an AMO's request to join ASX's CHESS Replacement community in MyStandards.	ASX	26 Mar 2019
73	8 Feb 2019	ASX to setup a meeting with Registries to further discuss Transfers and Conversions, prior to the Focus Group meeting currently scheduled for 27 February 2019.	ASX	26 Mar 2019
65	9 Oct 2018	ASX to consider if information such as participant party identification and preferences would be available within the node (in addition to published) and confirm to members as part of migration activity.	ASX	7 May 2019
70	8 Feb 2019	Members to provide feedback on where they considered the principles for ISO 20022 adoption not being followed, and ASX to consider how it measures and tests its principles of ISO 20022 adoption from a cost/benefit perspective, and clearly articulate why the changes are proposed.	Members / ASX	7 May 2019
74	26 Mar 2019	ASX to note the comment around re-work on accounts and potential impact on members own circumstances and consideration of slippage. ASX to come back to the committee if any further discussion is required.	ASX	7 May 2019
75	26 Mar 2019	ASX to review and respond to committee members regarding the availability of the access fee information.	ASX	7 May 2019
76	26 Mar 2019	ASX to review the availability of access fee information beyond go live + 3 years, and requested members contact ASX directly on this matter.	Members / ASX	7 May 2019

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77	26 Mar 2019	ASX to consider information to be provided to members regarding storage, capture, access of data within CSP and pass through of data.	ASX	7 May 2019
78	26 Mar 2019	Members to provide feedback around account creation and update related messages and information, including what they would and would not find of use in messages from CSP.	Members	7 May 2019
79	7 May 2019	Members to provide feedback on the housekeeping of unmatched DvP and bilateral demand messages end of day (related to Action item 62 – item 1).	Members	28 May 2019
80	7 May 2019	ASX to consider feedback regarding transparency of changes to scope, and consider how it could better bring changes to the Committee's attention.	ASX	28 May 2019
81	7 May 2019	Vendors to provide feedback to ASX if any changes in scope or time delays start to present challenges for their build.	Vendors	28 May 2019
82	7 May 2019	ASX to confirm the date when DAML SDK will be made available for Windows.	ASX	28 May 2019
83	7 May 2019	ASX to consider feedback received regarding the proposed model and messages for Transfer/Conversions and respond to members with final outcomes	ASX	28 May 2019
86	25 Jun 2019	Members who are or act for payment providers to ensure awareness of the changes to payment provider related messages. ASX to consider additional engagement activities with payment providers to ensure awareness.	ASX / Members	23 Jul 2019
87	25 Jun 2019	ASX to consider whether it could expand on the EIS messages contained within each of the business areas in the ISO 20022 Stream – Message Status table. ASX to also consider whether it can provide visibility on the draft messages under review with T2S Evaluation team, as relevant to CHESS Replacement.	ASX	23 Jul 2019