



Housekeeping

Troubleshooting

- > Please mute yourself when not speaking
- > Please use the 'raise hand' feature on MS Teams if you would like to ask a question
- > Please introduce yourself when talking for the benefit of all members
- Dial in details (audio only):
 - +61 2 7208 4607
 - Phone Conference ID: 420 720 462#
- > Presentation materials were distributed before the meeting and will be published on the website



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Competition Law Reminder

Workshop members are reminded to have regard to their obligations under competition law. In particular, please note that the Competition and Consumer Act prohibits 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.



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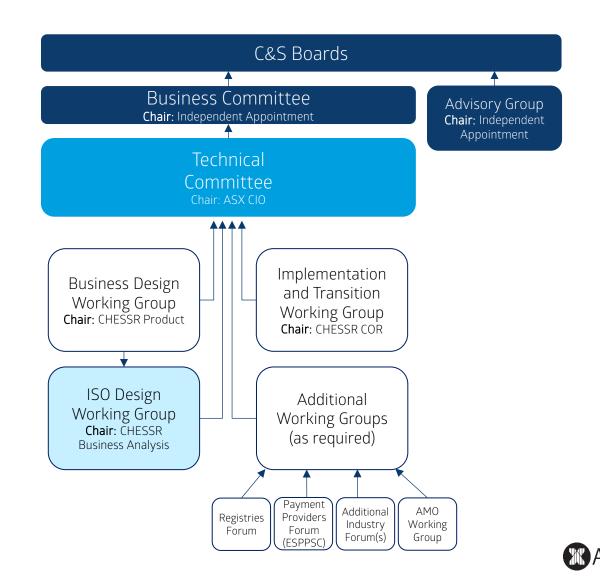
O1 Welcome and Kick-off



01 – Stakeholder Engagement Working Groups

In the 8 November Technical Committee, ASX introduced the working group market engagement model.

- Implementation and Transition Working Group (ITWG)
 - o Responsible for implementation planning
 - Will be consulted on plan, cutover, migration and testing
- Business Design Working Group (BDWG)
 - o Responsible for the design of any new/changing scope
 - Includes Business and Operational SMEs from relevant organisations
- ISO Design Working Group (IDWG)
 - Responsible for the ISO20022 message designs and flows
 - Will be consulted on all messages
 - o Includes Technical SMEs from relevant organisations
- Additional Working Groups
 - o Members and responsibilities as required



01 – ISO Working Group – Introduction

The purpose of the ISO WG is to ensure the application of the ISO 20022 standard to equity market messages and processes as part of the CHESS replacement project is efficient and compliant.

Objectives

- > Be the key forum for ASX to communicate with industry stakeholder representatives on the implementation of ISO 20022 in Australia's equity post trade environment
- Ensure market benefits related to the adoption of ISO 20022 is understood and realised – building industry knowledge of the standard, business areas, process and message detail
- Provide input to ASX documentation that describes the application of ISO 20022 (e.g. equivalent of CHESS External Interface Specification (EIS) and ASX Settlement Procedure Guidelines (APG)).

Key Topics

- Using the previous project's messages as a baseline, review and discuss any changes in the ISO message resulting from:
 - Differences resulting in changes to the messages (e.g. different field data types, enumerations, structures, etc.)
 - Technical workflow changes (e.g. changes to the UMLs)
 - Changes in relation to upgraded schemas
 - Changes requested through the review process by working group committee members
- Review and provide input to ISO 20022 schemas and usage guidelines for CHESS replacement.

Key Messages

- Technical Committee members who haven't nominated representatives are asked to nominate up to two primary representatives to participate in the Working Group
- Meetings will be up to 2 hours in duration and will be held approximately monthly. Invitations and agenda will be shared closer to commencement
- Nominated members should have the appropriate ISO 20022 messaging skills and business responsibilities to actively contribute to the objectives of the group.



01 – High-level ISO design process flow

Pathway to finalised ISO specifications

This is the proposed process to turn the Business Design Documents into ISO Schema





Draft and finalised ISO specifications will be made available via the MyStandards portal. Refer to slide 35 for instructions on how to access the portal.

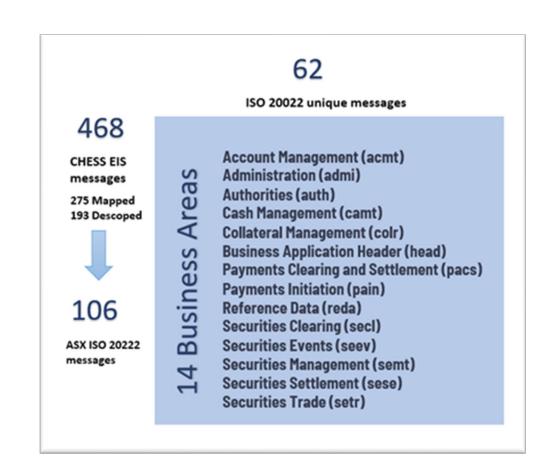


For discussion



ISO 20022 Name Structure

- > Business Area (4 characters): This indicates the area of financial services the message pertains to, such as Payment Clearing and Settlement (pacs), Securities and Settlement (sese), Collateral Management (colr), or Securities Event (seev). Refer to the right diagram for the 14 ISO 20022 business areas that CHESS covers
- > Message Number (3 digits): This indicates a three-digit identifier that uniquely distinguishes a specific message type within the defined Business Area
- Message Variant (3 digits): The Message Variant is a three-digit code that indicates the specific variant of a message. Different variants of a message might exist to support different business processes or regulatory requirements
- > Message Version (2 digits): The Message Version is a two-digit code that specifies the version of the message standard being used. It reflects updates or changes to the message structure, content, or usage rules.





ISO 20022 Name Structure

Business Area	Message Number	Message Variant	Message Version	ISO 20022 message ID	ISO Message Description
head	001	001	04	head.001.001.04	Business Application Header
nvlp	001	001	01	nvlp.001.001.01	Business Message Envelope
secl	001	001	03	secl.001.001.03	Trade Leg Notification
secl	002	001	03	secl.002.001.03	Trade Leg Notification Cancellation
sese	023	001	11	sese.023.00 1 .11	Securities Settlement Transaction Instruction
sese	023	002	11	sese.023.00 2 .11	Securities Settlement Transaction Instruction
seev	031	001	14	seev.031.001.14	Corporate Actions Notification



ASX Message Name Structure

- ASX uses the same ISO base message for different business processes. The same ISO base message Securities Settlement Transaction Instruction (sese.023) is used for:
 - Demand transfer
 - Settlement instructions
 - Transfers/conversions
 - Changing controlling participant
- To distinguish between these processes, ASX created its own naming convention, which is reflected in the ISO Business Application Header (BAH) fields
- > The Message Definition Identifier < MsgDefldr > tag includes the ISO base message and the Business Service < BizSvc > tag is associated with the ASX Message ID
- > This approach is a common practice in the ISO standard.

Business Process	ASX Business Area	Message Number Range
Account Management	acct	001-100
Settlement	sett	101-200
Holding Movement	hold	201-300
Pledge and Lodge Management	pldg	301-400
Clearing	clrg	501-600
Reporting	rptg	601-700
Corporate Action Event	evnt	701-800
Common	comm	801-850
Operations Admin	admn	851-899



ASX Message ID

- > Business Area (4 characters): This indicates the ASX business area services the message pertains to, such as Clearing (clrg), Settlement (sett), Collateral Management (pldg), or Corporate Actions Event (evnt)
- > Message Number (3 digits): This indicates a three-digit identifier that uniquely distinguishes a specific message type within the defined Business Area.
- > Message Variant (3 digits): The Message Variant is a three-digit code that indicates the specific variant of a message. Different variants of a message might exist to support different business processes or phases (example release 1 and release 2)
- > Message Version (2 digits): The Message Version is a two-digit code that specifies the version of the ASX message being used. It reflects updates or changes to the message structure, content, or usage rules.



ASX Message Name Structure

Business Area	Message Number	Message Variant	Message Version	ASX message ID	ASX Message Description
comm	801	001	01	comm_801_001_01	Business Application Header
comm	802	001	01	comm_802_001_01	Business Message Envelope

For example:

ASX Message Id	ISO Message Id
comm_801_001_01	head.001.001.04



The messages will be updated to version 1 for the new phase of the CHESS Replacement Project. ASX will provide release notes with version control, detailing all changes made to the messages from the previous project to the new CHESS replacement.



Business Message Name Structure

- > Each Business Message is named according to the following naming convention:
 - <Institution Country Service>_<ASX Message Identification>_<ISO 20022 base message>
- > ISO 20022 "MyStandard" requires an identifier to prefix all Business collections. The ASX's identifier is "ASX_AU_CHS".

Business Area	ASX Message ID	ISO 20022 base message	Message Version
ASX_AU_CHS	comm_801_001_01	head_001_001_04	ASX_AU_CHS_comm_801_001_01_head_001_001_04
ASX_AU_CHS	comm_802_001_01	nvlp_001_001_01	ASX_AU_CHS_comm_802_001_01_nvlp_001_001_01
ASX_AU_CHS	clrg_501_001_01	secl_001_001_03	ASX_AU_CHS_clrg_501_001_01_secl_001_001_03
ASX_AU_CHS	clrg_502_001_01	secl_002_001_03	ASX_AU_CHS_clrg_502_001_01_secl_002_001_03



For discussion



- > A Business Message is formed by combining a Business Application Header ('BAH') with an ISO 2022 message definition
- > The BAH is a necessary component for all Business Messages sent to and from CHESS
- > The ASX ISO BAH head.001.001.01 is composed of the following elements:
 - From <Fr>: the sender and creator of a Business Message
 - To <To>: the recipient of a Business Message
 - Business Message Identifier <BizMsgldr>: the Business Message ID assigned by the Sender
 - Message Definition Identifier < MsgDefIdr>: the ISO 20022 base message ID
 - Business Service <BizSvc>: the ASX Message ID
 - Creation Date Time < CreDt>: creation Date Time of the message
 - Business Processing Date <BizPrcgDt>: Business Date
 - Related <RItd>: Specifies the Business Application Header(s) of the Business Message(s) to which this Business Message relates.



Change from the previous Project

As part of the migration from 2017 to 2024, the version of the header message changed from head.001.001.02 to head.001.001.04. However, the version number the of schema is unchangeable.

ASX Message Id	ISO Message Id
comm_801_001_01	head.001.001.04



Creation Date and Time

- > The Creation Date and Time is a mandatory field and identifies the creation Date Time of the message
- > Creation Date Time from the BAH changed the format type from UTC to local time stamp
 - Coordinated Universal Time was a standard time used worldwide, without any time zone adjustments
 - Local time is the local time zone, which adjusts for regional time differences, including daylight savings or geographical location.



Change from the previous Project

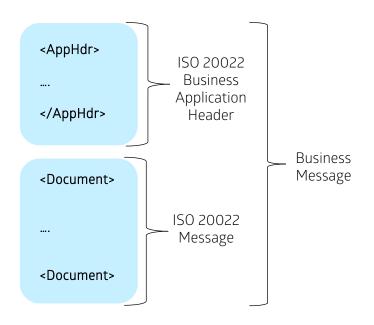
Create Date Time changed format from UTC to the local time stamp

Previous Creation Date Time message Id	Current Creation Date Time message Id
2018-05-05T12:13:11.001Z	2018-05-05T12:17:10.001



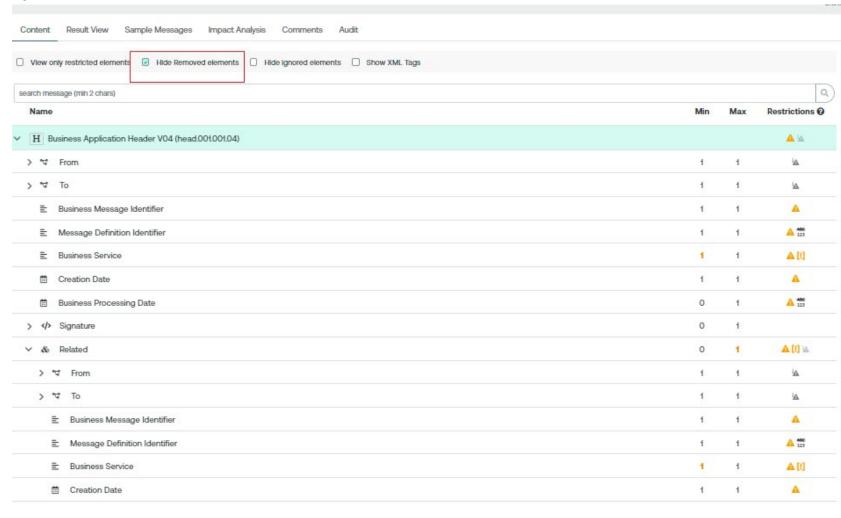
Business Application Header Structure

Element	Tag	Sample
From:	<fr></fr>	00001. This is the Sender's UIC or BIC.
To:	<to></to>	20098. This is the Recipient's UIC or BIC.
Business Message ID:	<bizmsgldr></bizmsgldr>	000011876543700
Message Definition ID:	<msgdefldr></msgdefldr>	acmt.002.001.08
Business Service:	<bizsvc></bizsvc>	acct_002_001_01
Creation Date:	<credate></credate>	2018-05-05T12:13:11.001
Business Date:	<bizprcgdt></bizprcgdt>	2018-05-05
Related:	<rltd></rltd>	From: 00001
		To: 20098
		Business Message Indentifier: 20098100100
		MessageDefinitionIdentifier: acmt.001.001.08
		Business Service: acct_001_001_01
		CreationDate: 2018-05-05T12:13:11.001



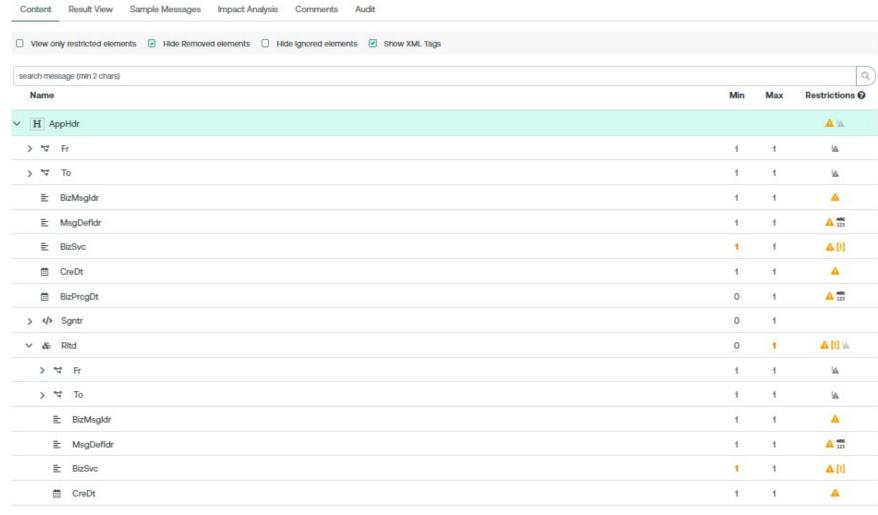


MyStandard View





MyStandard View with Tags





UIC and BIC

- > In the schema of the message ASX will accept BIC and UIC
 - UIC Code: 01402
 - User Identification Code: 5 numeric (users must insert their own UIC)
 - BIC: CTBAAUS2SXXX
 - o Business Party prefix: 4an CTBA
 - o Country code (ISO 3166-1): 2a-AU
 - Business Party: 2an-2S
 - Branch Identifier 3an-XXX





```
| COrgld | C
```



ASX proposes to only accept UIC in the message schema.

The BIC and UIC preference will be supported by the message schema only for potential future interoperability requirements.

It is proposed that BIC will not be included as a part of CHESS Replacement.



Business Message Identifier

- > Adoption of ISO 20022 Transaction Id data type of {1,35}
- > Schema validation according to ISO 20022 character set (UTF8).
- > Business Message ID character set (Application Validation)
 - Must only contain alpha-numeric characters (A-Z, a-z, 0-9) and special characters in ASCII 32-126.
- > Must be unique
- > The format of a Business Message Identifier/BMI must be as follows: <UIC><User Defined ID>
 - UIC Must match the identifier utilised in the Sender Party <From> portion of the BAH
 - User Defined ID Must be ASCII 32-123,125-126



Change from the previous Project

The vertical line (|) delimits was removed as BaNCS system doesn't accept

Party Id	User Defined Id
01402 (UIC)	123456



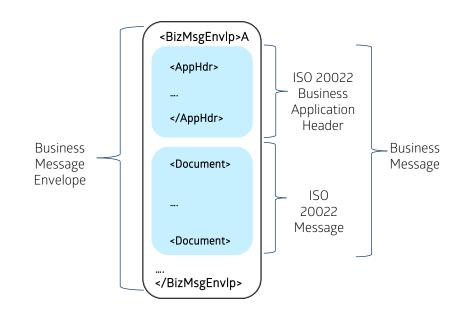
Business Message Envelopes

For discussion



04 – Business Message Envelope

- > The Business Message Envelope (BME) is a technical message container used to bundle a BAH with a ISO 20022 message definition to support processing or transport
- > The ISO 20022 BME provides an ISO 20022 construct which binds the ISO 20022 BAH to the corresponding ISO 20022 message. Binding is realised through an envelope or wrapper on the ISO 20022 BAH and the related ISO 20022 message. The envelope can be defined by a XML schema
- > CHESS will adopt the ISO BME: nvlp.001.001.01. This is composed of 2 message building blocks:
 - Header: ISO 20022 Business Application Header instance
 - Document: ISO 20022 Message Definition instance.





Change from the previous Project

ASX updated the envelope schema from a proprietary format to ISO 20022. ASX started the project and used comm_802_001_01 as ISO 20022 did not have a standard for envelopes. However, ISO created and published a new message type and schema in 2020 specifically for envelope management, nvlp.001.001.01.

ASX Message Id	ISO Message Id
comm_802_001_01	nvlp.001.001.01



04 – Envelope Message Structure

For example:

```
<?xml version="1.0" encoding="UTF-8"?>
   <!--Sample XML file generated by XMLSpy v2024 (x64) (http://www.altova.com)-->
  ∃ <BizMsgEnvlp_xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:iso:std:iso:20022:tech:xsd:nvlp.001.001.01.xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:nvlp.001.001.01.ASX_AU_CHS_comm_802_001_01_nvlp.001.001.01.xsd">
             ASX_AU_CHS_comm_801_001_01_head_001_001_04.xsd"> ... </AppHdr>
             ASX_AU_CHS_clrg_501_001_01_secl_001_001_03.xsd">
                   <TradLegNtfctn> ... </TradLegNtfctn>
         </Doc>
  </BizMsgEnvlp>
 <?xml version="1.0" encoding="UTF-8"?>
  <!--Sample XML file generated by XMLSpy v2024 (x64) (http://www.altova.com)-->
KBizMsgEnvlp xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:iso:std:iso:20022:tech:xsd:nvlp.001.01" xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:nvlp.001.01" xsi:schemaLocation="urn:iso:std:iso:xsd:nvlp.001.01" xsi:schemaLocation="urn:iso:xsd:nvlp.001.01" xsi
 ASX_AU_CHS_comm_802_001_01_nvlp.001.001.01.xsd">
                <a href="AppHdr">AppHdr</a> xmlns:n2="http://www.w3.org/2000/09/xmldsig#" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.04"
  xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.04 ASX AU CHS comm 801 001 01 head 001 001 04.xsd">
                       <Fr> ... </Fr>
                       <To> ... </To>
                       <BizMsgIdr>01442500500500</BizMsgIdr>
                       <MsgDefIdr>acmt.001.001.08</msgDefIdr>
                       <BizSvc>acct_001_001_01</BizSvc>
                       <CreDt>2024-08-14T09:40:10</CreDt>
                       <BizPrcgDt>2024-08-14</BizPrcgDt>
               </AppHdr>
         </Hdr>
 |<Document xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:iso:std:iso:20022:tech:xsd:acmt.001.001.08" xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:acmt.001.001.08 ASX
                <AcctOpngInstr>
                       <MsgId> ... </MsgId>
                       <InstrDtls> ... </InstrDtls>
                       <InvstmtAcct> ... </InvstmtAcct>
                       <AcctPties> ... </AcctPties>
               </AcctOpngInstr>
         </Document>
       </Doc>
```



Supplementary Data

For discussion



05 – Supplementary Data

Background and overview

- > The ASX implementation of ISO 20022 incorporates the concept of supplementary data, also known as extensions. Extensions are used to cover ASX elements that are not covered by the standard ISO messages
- > The supplementary data components are implemented using ISO 20022 principles and allow ASX to add elements that have not been globally agreed upon to form part of the main message. This improves interoperability without impacting the messages themselves, which may have been implemented in other communities
- > Supplementary data components are applicable
 - As a temporary solution until specific components are added within the body of the message by the ISO 20022 registration authority following an accepted change request
 - For local market practices as it avoids affecting the entire user base. Use of a Supplementary Data message extension avoids impacting the entire user base. This is likely in circumstances where a change request to the base message would likely be rejected
- > Supplementary data cannot be used to change the scope of the base message.

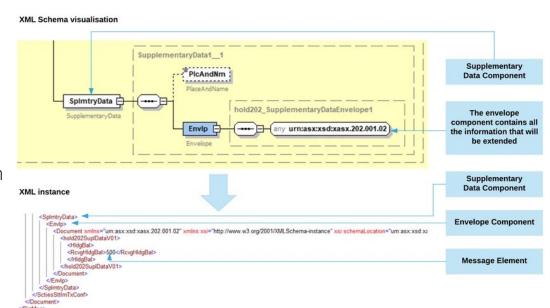


05 – Supplementary Data

Key elements of supplementary data

- > All child elements of <sup:document> must have the same alias prefix
- The schema file name is equal to the ISO document schema name that contains it, except it has a "_sup" suffix
- > The supplementary data component can be found at the end of the message (MessageDefinition). The extended message structure makes use of another XML schema (the MessageDefinition Extension schema) to specify the extension
- > Supplementary data acceptable usage
 - As an interim measure when awaiting an ISO 20022 change request
 - To extend the base message for local market practice that are not candidates for the change request.





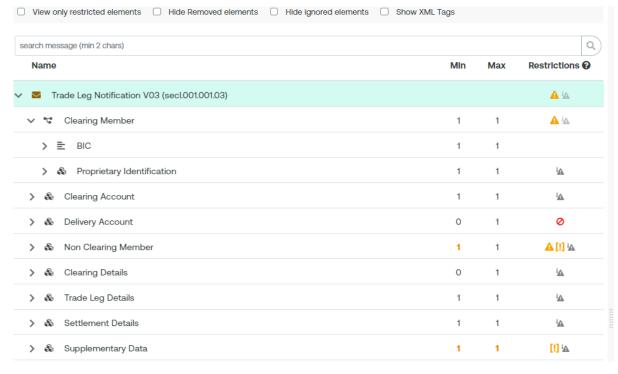


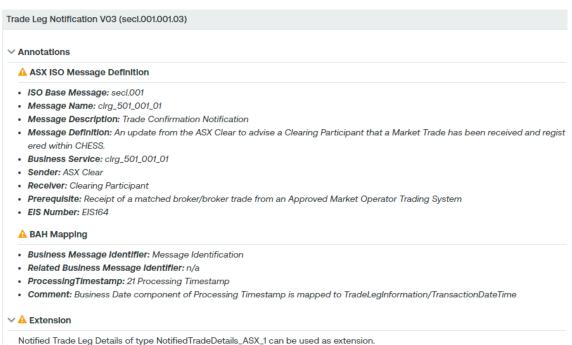
Annotations



06 – Annotations

ASX Message Definition

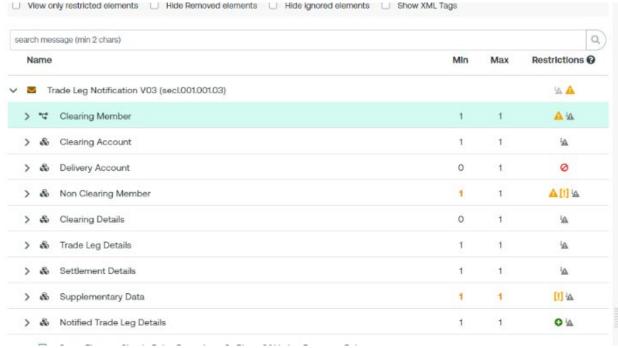


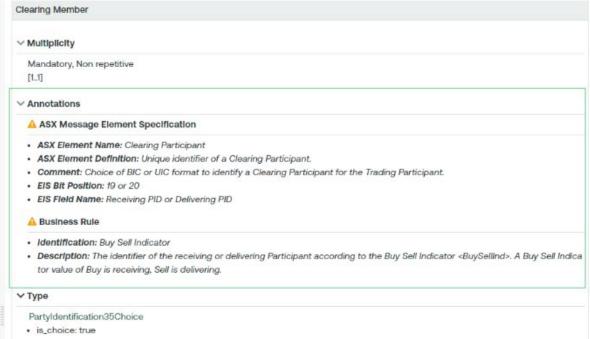




06 – Annotations

ASX Message Element Specification







Introduction to MyStandards and SWIFT



07 – MyStandards and SWIFT Access

Requesting access to the ASX CHESS Replacement Community

Step	Instructions
1.	To use MyStandards, you will need to register as a SWIFT User. Please follow the instructions described in the <u>SWIFT Registration User Guide</u>
2.	Once registered, send an email to CHESSReplacement@asx.com.au Include your SWIFT user details: Name > Email address
	Note: > ASX CHESS Replacement Community is a closed group, and access is granted by email request only > ASX will only accept email addresses with a recognizable company domain (free email addresses such as Hotmail or Gmail will not be accepted) > Once your access has been granted, ASX will send you a confirmation email
3.	Go to the MyStandards page on SWIFT's website Click the Login to MyStandards button Complete the Email address and Password fields and then click Sign in
	Note: > If you have set up 2-Step Verification, the 2-Step Verification page displays. Enter the code sent to your email address or mobile phone and then click Ok
4.	To access the ASX CHESS Replacement Community: click the USER PROFILE icon and select MY PROFILE



Please contact ASX for access to the ASX CHESS Replacement Community. Access Usage Guidelines will be available as an attachment in MyStandards.



Next Steps



08 – Next Steps

- > Technical Committee members who haven't nominated representatives are asked to nominate up to two primary representatives to participate in the Working Group
- > Feedback required for the following:
 - Business Application Headers (comm_801_001_01) and Business Message Envelopes
 - MyStandards documentation: <u>ASX ISO 20022 Working Group</u>
 - Community: ASX ISO 20022 Working Group
 - Collection: ASX_AU_CHS_draft_comm
 - Further details (attached to Message Definitions in MyStandards)
 - Message Model
 - Sample .xml
 - Valid .xml samples to illustrate message structure



ASX requests ISO WG feedback via MyStandards by 19 November 2024. Feedback will be addressed at the next ISOWG meeting.



Forward Engagement Plan and AOB



09 – Forward plan

CY2024 Committee Schedule

Month	Date	Time			
Technical Committee					
November meeting	Wednesday 6 November	2pm – 4pm			
December meeting	Tuesday 3 December	2:30pm – 4:30pm			
Business Committee					
December meeting	Wednesday 11 December	4pm – 6pm			

Upcoming Working Groups	Proposed Topic	Month		
ISO 20022 Design	Account related messages and holding reports (TSBL & HBAL)	10 December		
Business Design	Transaction Basis Process Deep Dive	21 November		
AMO	Fixed Specification Update and Security Details Report	14 November		
Implementation & Transition	Industry Testing and Consultation Paper for Release 2	28 November		

Proposed ISOWG meeting dates

	20	24	2025											
	Nov 24	Dec 24	Jan 25	Feb 25	Mar 25	Apr 25	May 25	Jun 25	Jul 25	Aug 25	Sep 25	Oct 25	Nov25	Dec 25
ISOWG		10 Dec		18 Feb	20 Mar	16 Apr	21 May	19 June	24 Jul	20 Aug	18 Sep	23 Oct	20 Nov	18 Dec
	C	4		Q1			Q2			Q3			Q4	



Questions



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