



# CHES Replacement Project

**Technical Documentation**

12<sup>th</sup> December 2018

# Housekeeping: audio trouble shooting

- > Check your system requirements →
- > Check that your computer's audio is unmuted
- > If you are still experiencing audio difficulties, try downloading the GoTo Webinar Application on your phone, and enter the Webinar ID: **329-105-443**

GoToWebinar Attendee System Check for Webcast Webinars

**Looks good! You can join a webinar.**

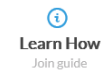
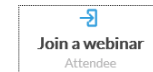


- OS - Windows 8.1
- Browser - IE 11
- Internet connection - Strong
- Flash - Enabled

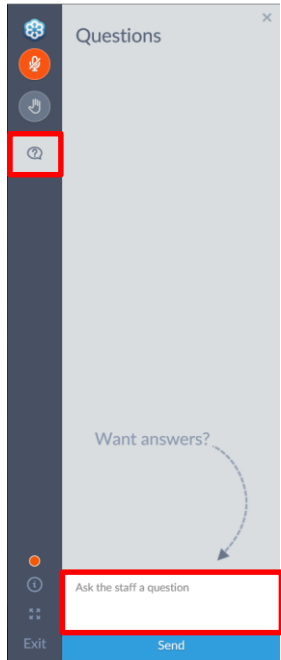
[Test your system again](#)

[View System Requirements](#)

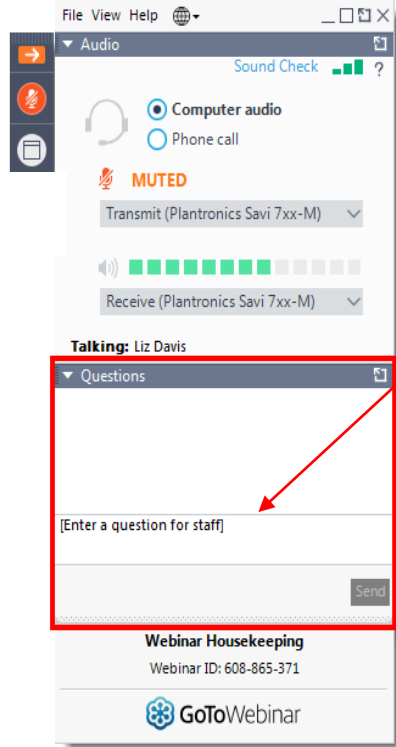
Next steps



# Housekeeping: how to submit questions



OR



## Your Participation

- To submit your text questions and comments use the Questions panel
- Note that your questions will not be seen by other attendees

For more information - refer to the webinar tips published on the ASX

[CHES Replacement web page](#)

# ASX presenters and introductions



**Cliff Richards**

Executive General  
Manager,  
Equity Post Trade



**Karen Hamilton**

Manager, Business  
Analysis, Corporate  
Technology



**Keith Purdie**

Senior Manager,  
Equity Post Trade

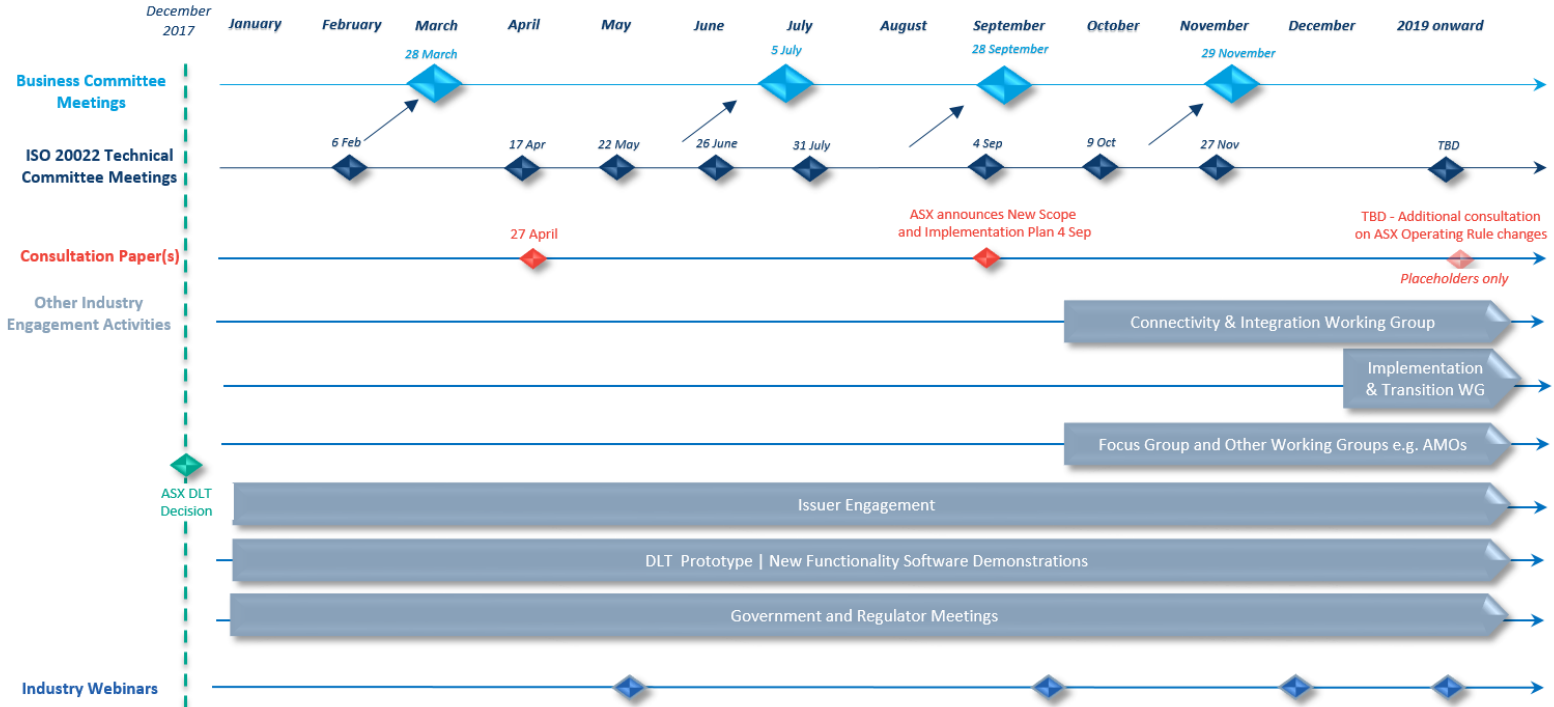
# Agenda

- > Project Update
- > Overview of Technical Documentation
- > Demonstration on how to navigate the Technical Documentation library
- > SWIFT MyStandards and Readiness Portal overview
- > Forward work plan for Stakeholder Engagement
- > Q&A

# Project Update

# CHESS Replacement Project update

## CHESS Replacement Engagement Plan - 2018



# Scope of Release



# Technical Documentation

## Guiding Principles



- Technical Documentation available at least three months prior to incremental software drop.
- ASX committed to six month rolling forward feature view of technical documentation.



- Wiki-style Confluence site replaces static PDFs.
- Dynamic environment enables search facilities and integrated links.
- Access via ASX Online & ASX CHES Replacement homepage.
- Users register to access documentation.



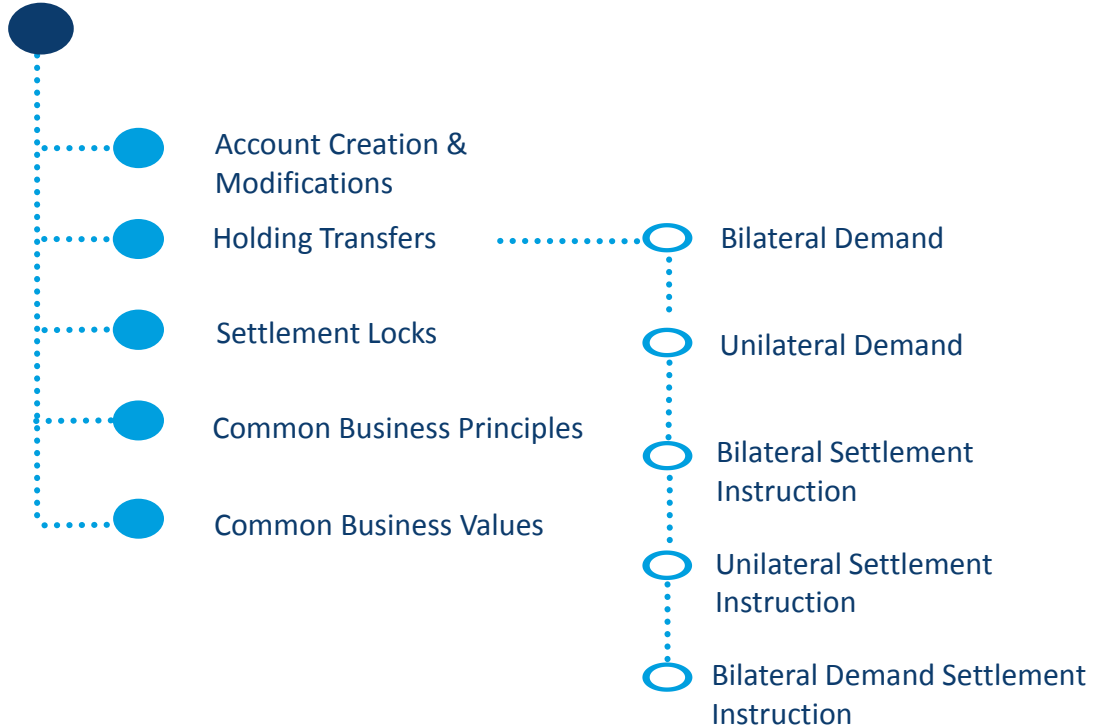
- Documentation continually enriched & enhanced.
- Release Notes provided.
- Changes between documentation releases on “What’s New” section.
- Subsequent documentation releases communicated to registered users.
- Dedicated email address for queries: [CSPSupport@asx.com.au](mailto:CSPSupport@asx.com.au)

# Functional Specifications

Scope for Documentation Release 1



## Functional Specifications



# Messaging

## Scope for Documentation Release 1



### Messaging Catalogue



Links to



MyStandards  
Usage Guidelines



MyStandards  
User Guides

### ISO 2022 Technical Manual



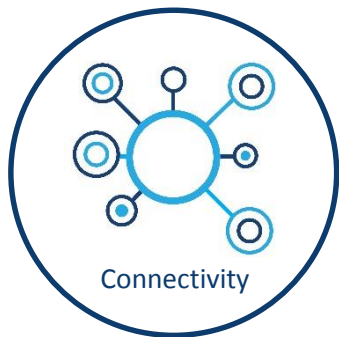
EIS Cross Reference  
Guide

ASX Proprietary  
Code List

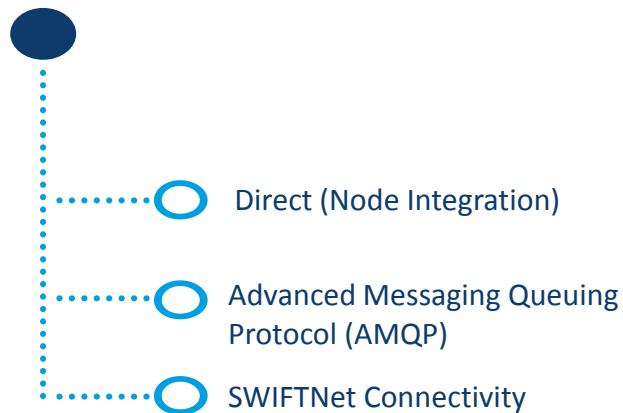
ASX Error Code  
List

# Connectivity

## Scope for Documentation Release 1



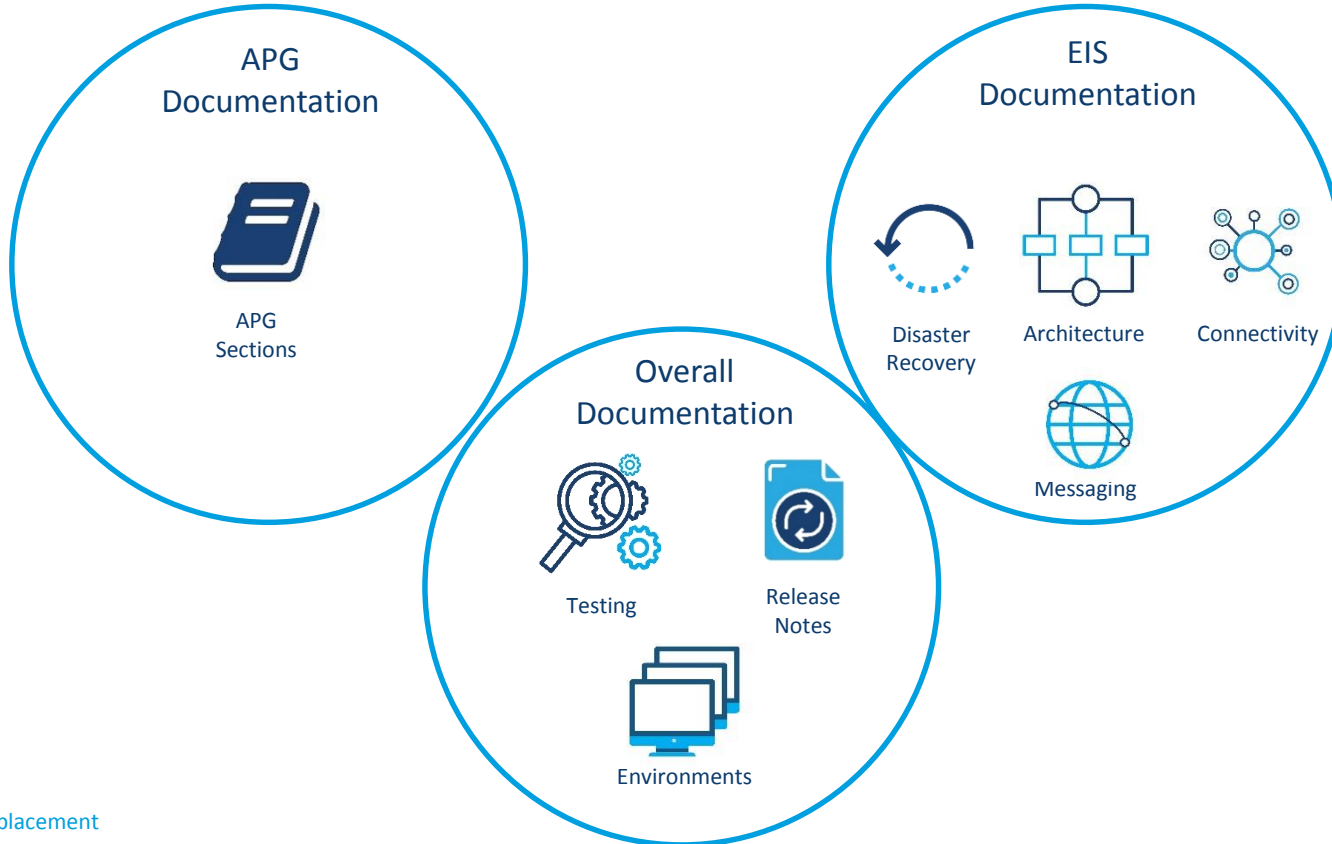
### Connectivity Overview



# Technical Documentation Overview

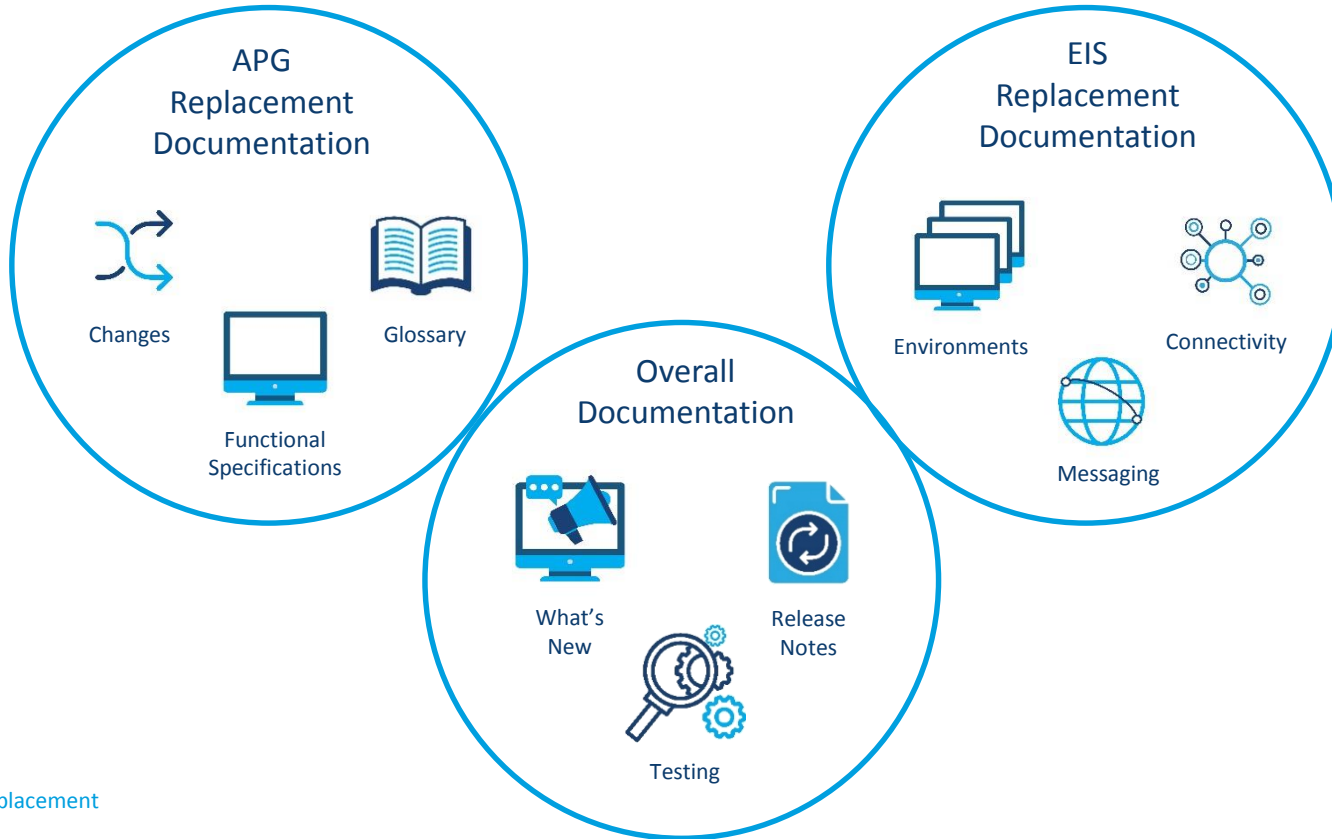
# Overview of Technical Documentation

## Overview of Current CHES Documentation



# Overview of Technical Documentation

## Overview of Documentation Package – Stage 1



Pause 00:00:00 Select Area Audio Record Pointer

# LIVE CHES Replacement

Overview

Space settings

SPACE SHORTCUTS

Home

Glossary

PAGES

> Functional Specification

> Messaging

> Connectivity

> What's New

> Release Notes

> Frequently Asked Questions (FAQs)

> Environments

> Testing

Welcome to the ASX CHES Replacement Documentation Environment.

The purpose of the Technical Documentation is to facilitate development and testing of the new ASX Clearing and Settlement Platform (CSP).

Technical Documentation will be made available three months prior to each incremental software drop into the Customer Development Environment (CDE).

Existing Documentation will be enriched on a regular basis, with relevant release notes.



Functional Specification



Messaging



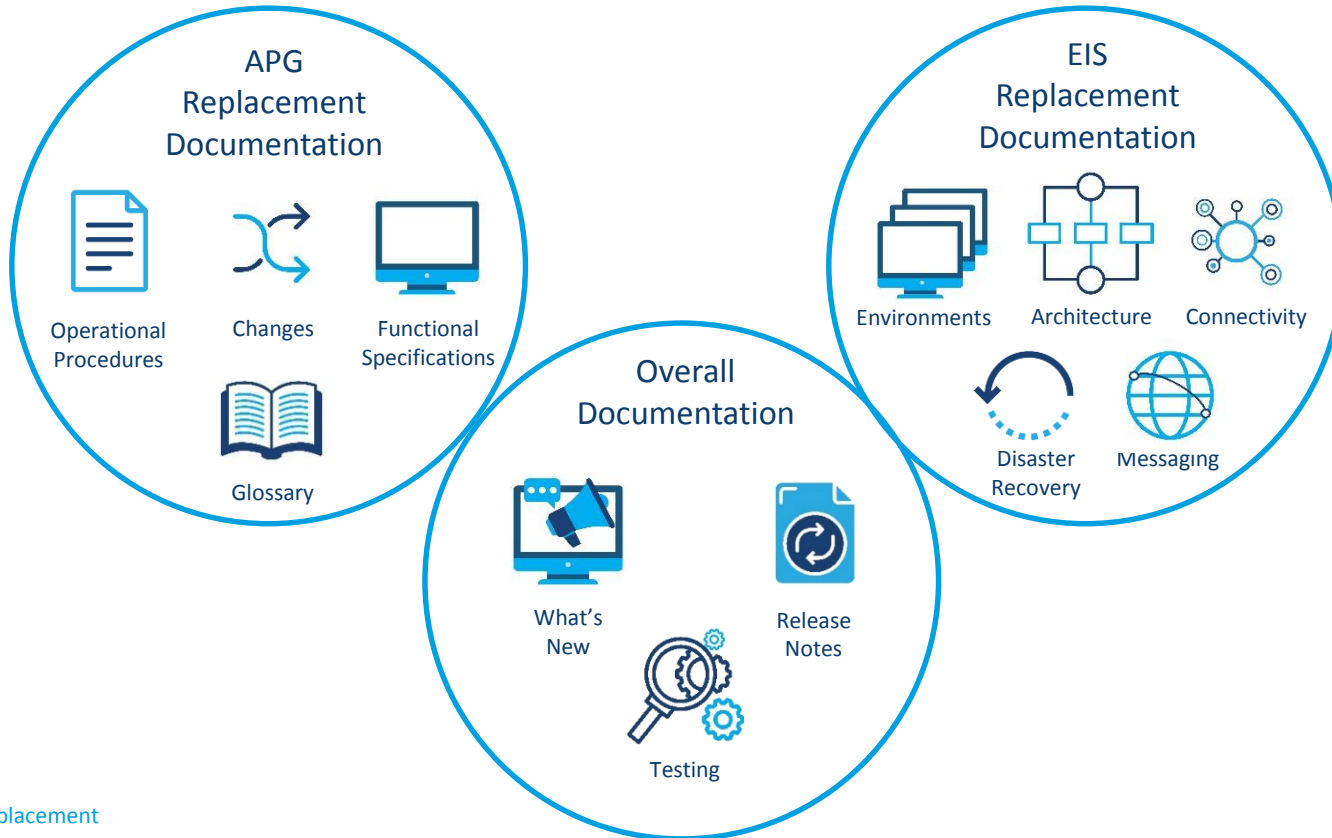
Connectivity





# Overview of Technical Documentation

## Overview of Documentation Package – Final Stage



# SWIFT MyStandards and Readiness Portal Overview

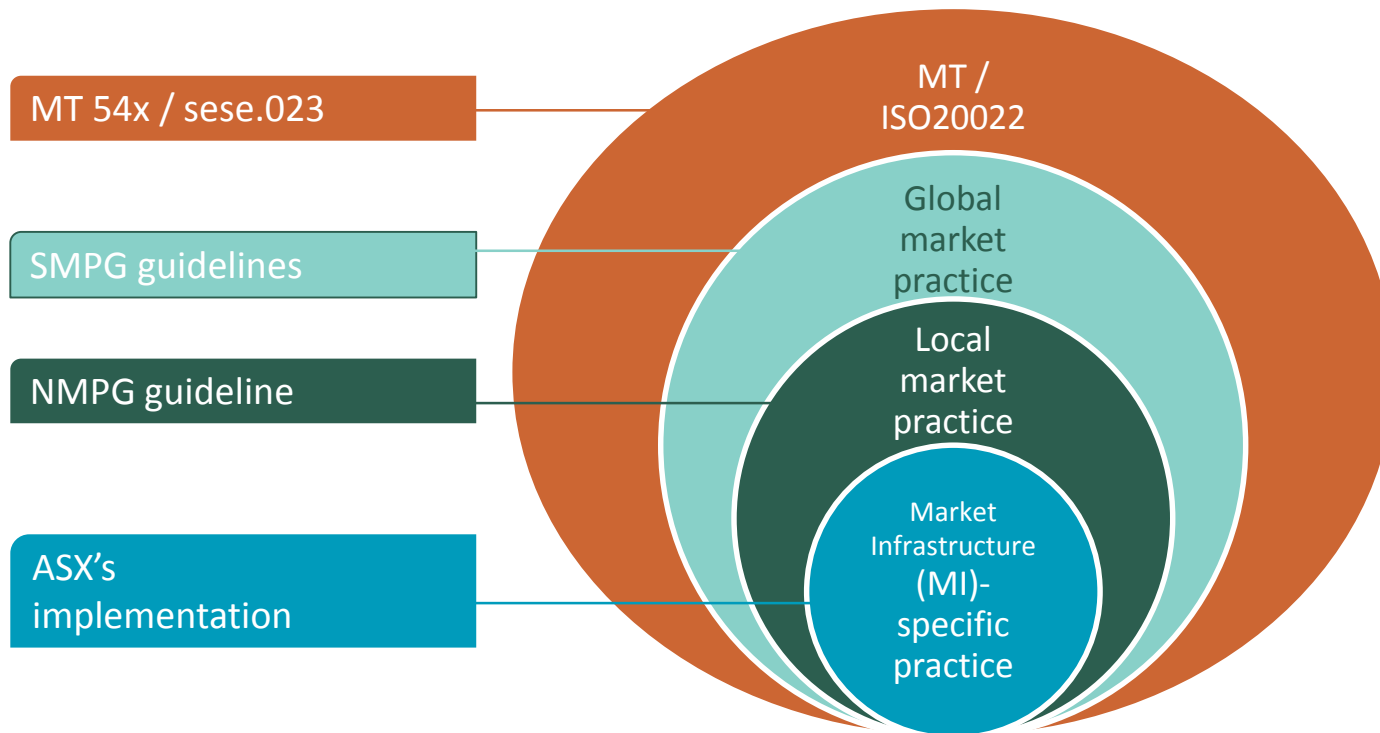
Nicole Jolliffe

Lead Standards Specialist, SWIFT

<http://mystandards.swift.com/>

[mystandards@swift.com](mailto:mystandards@swift.com)

# Standards are created globally and used locally



## Problems

**Fragmentation** and **change** of message implementation guidelines

**Cost** of **onboarding** community

The same problem applies **across different channels**

# MyStandards portfolio

A common industry approach to solving Standards-related issues

Consultation

**Define MI usage** of ISO20022 in **MyStandards** and consult community using SWIFT's **collaborative commenting features**

Education

**Publish** multi-format **documentation** and powerful **comparisons** to understand MI new format specifications using **MyStandards**

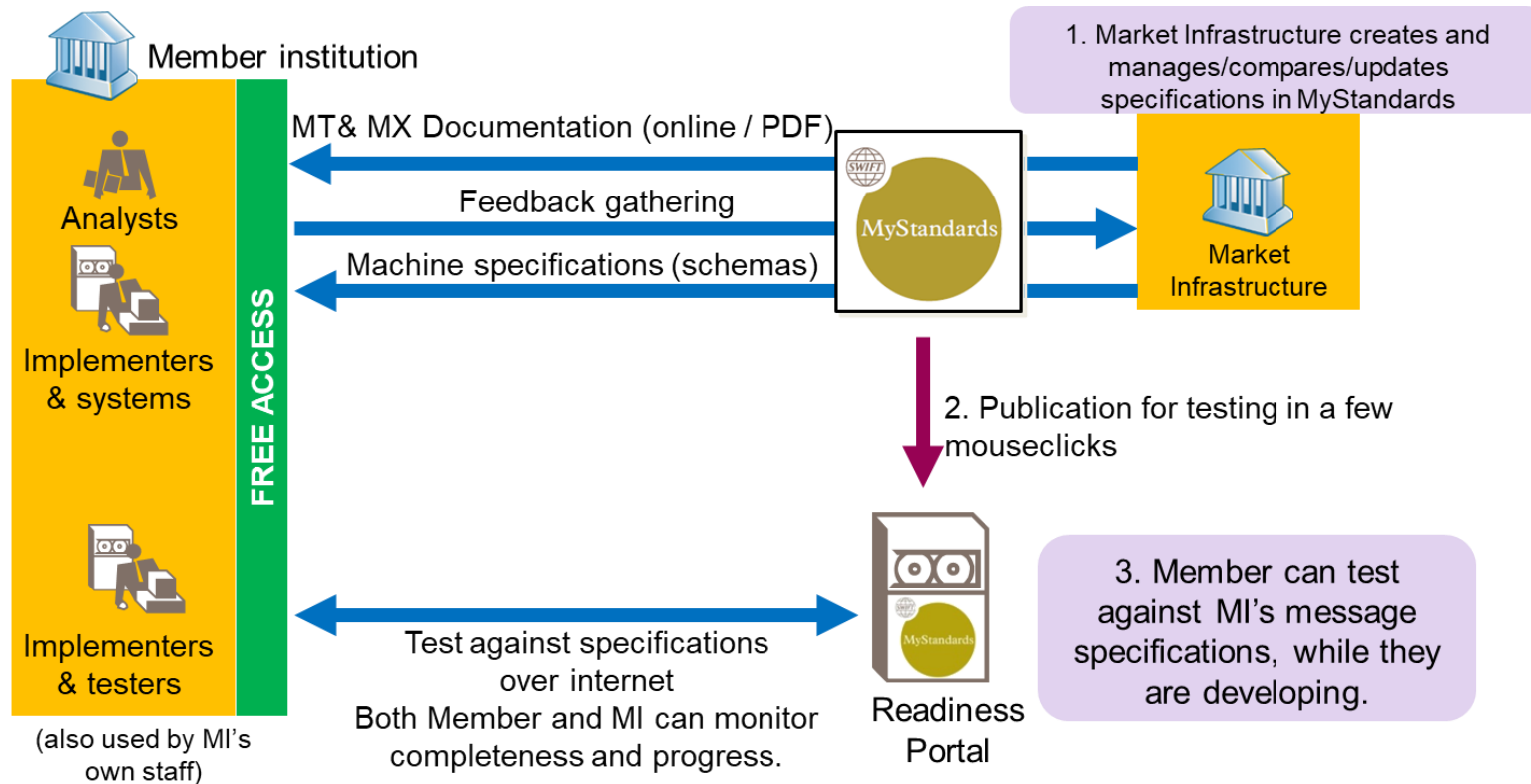
Migration

**Onboard community** using the **Readiness Portal** and SWIFT Translator to **streamline format translation**

Maintenance

**Easy maintenance** thanks to **automated impact analysis** and full integration of the **MyStandards** portfolio

# How it works - getting standards-related issues out of the way



# MyStandards in numbers



## Industry Adoption

**120+**

Publishing organisations

**40.000+**

Registered users

**22.000+**

Usage guidelines

# MyStandards: a central source for all ISO 20022 information

## MI implementations published

- T2S / Deutsche Bundesbank
- Clearstream
- Euroclear
- Monte Titoli
- London Clearing House
- ASX
- VP Securities Denmark & VP Lux
- VPS Norway
- DTCC
- National Bank of Belgium
- SGX
- Jasdec
- KDPW
- NSD Russia
- Payments Canada
- SADC / PASA / Bankserv
- HKICL

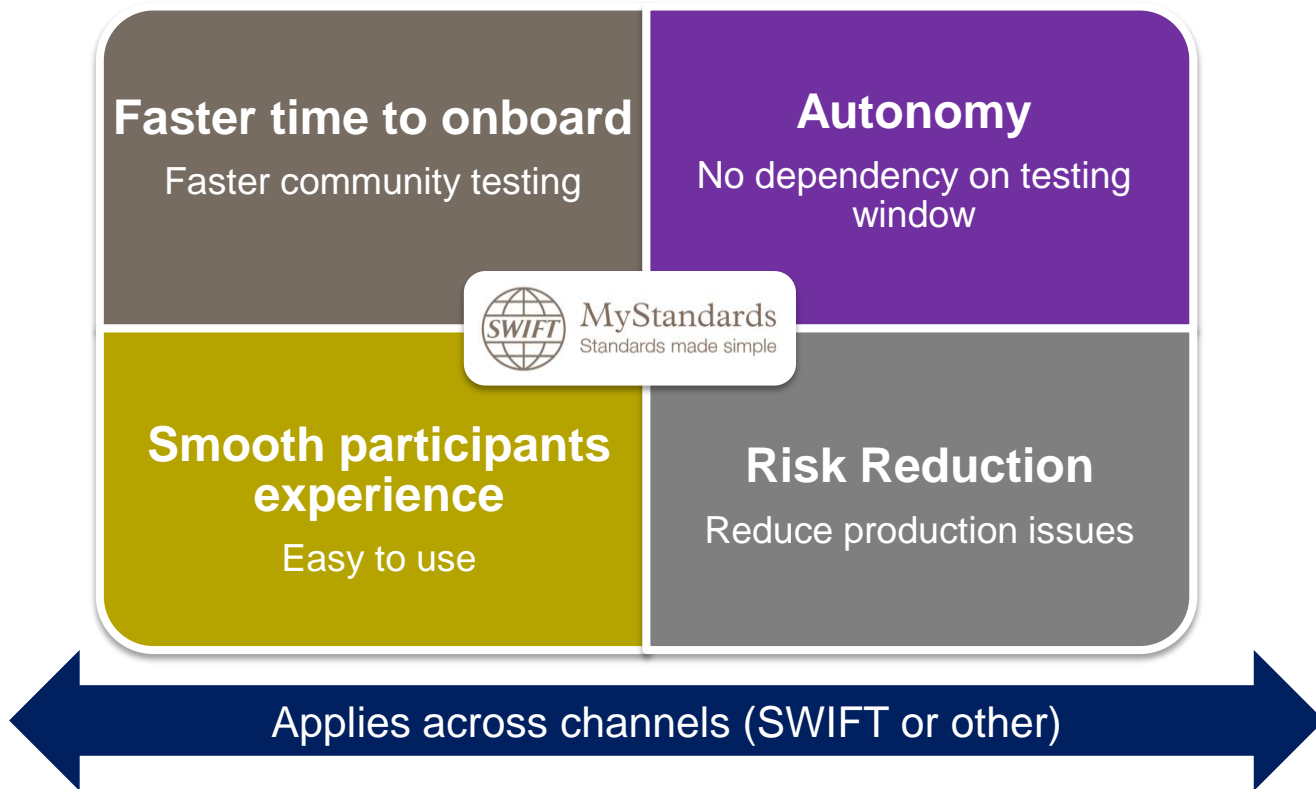
## Market Practices available

- Settlement & Reconciliation
- Corporate Actions (main event types)
- Collateral Management
- Investment funds
- Settlement and related services used by T2S
- High value payments
- HVPS+
- Real Time Payments
- CGI
- SEPA

## Product enhancements

- Business Application Header & Supplementary data:
  - Specify and document usage
  - Validate complete message in the Readiness Portal
- Publication of ISO 20022 draft messages in line with new version and release management cycle

# External - Benefits





# Validation scope


- **Immediate feedback**
- **ISO20022 Base message**
- **ISO20022 cross-element rules**
- **Reference Data (BIC, currencies, countries)**
  
- **MI restrictions**
- **MI cross-element rules**
  - **Define complex rules (quantifiers, if-then,...)**
  - **Define customized error messages for cross-element rules**


# Screenshots : Readiness Portal



# Access to the Readiness Portal

## ASX has created a dedicated portal.

 MyStandards <mystandards@swift.com>

 If there are problems with how this message is displayed, click here to view it in a web browser.

Sent: **Tue 11/12/2018 11:58**

To:

ASX has created a dedicated portal.

## ASX

*ASX has created and shared your personalised  
ASX\_AU\_CHS\_MASTER\_DROP1 portal.*

[Visit my dedicated portal](#)

Please note, you must use this email to log into the Portal.

or copy/paste this link in your browser:

[https://www2.swift.com/mystandards#/portal/\\_D-DFMPxCEinOtCCc41xQQ](https://www2.swift.com/mystandards#/portal/_D-DFMPxCEinOtCCc41xQQ)

## Explore, test and be ready.

*Do business the easy way*


Use your portal to explore their specifications and test your systems' readiness to do business. The portal confirms that all messages you send can be successfully delivered to and straight-through processed. You can also access comprehensive libraries of test messages to confirm that your systems can correctly process any message that you will receive.



Drop1 Message Collection for ASX CHESS Replacement





▼ To ASX


36

003\_001\_03\_DRAFT6reda\_023\_001\_01 

**0**  
Completed Tests





**0**  
Valid Tests


 Documentation  Download Samples  History 

105\_001\_04\_sese\_023\_001\_07 

**0**  
Completed Tests




**0**  
Valid Tests

 Documentation  Download Samples  History 

201\_001\_03\_sese\_023\_001\_07 

**2**  
Completed Tests

**1**  
Valid Tests

 Documentation  Download Samples  History 



Drop1 Message Collection

023

▼ To ASX

003\_001\_03\_DRA

0  
Completed Tests

Documentation

201\_001\_03\_sese\_023\_001\_07

2  
Completed Tests

1  
Valid Tests

Documentation

Download Samples

History

Test

Upload a Message

OR

Upload a ZIP

OR

Test Message

# A discovery-based approach to understanding specific formats

ASX\_AU\_CHS\_MASTER\_DROP1 PUBLISHED

**1 error** 201\_001\_03\_sese\_023\_001\_07

11-12-2018 03:05

**Summary**

**ERROR 1**

**Error Details:**

The value 'APMT' is not valid. It must be one of the following values : FREE

[Escalate to support](#)

See documentation

**Impacted lines:**

**Line 6**

**Test** **Upload** **Download Message**

```
1 <?xml version="1.0" encoding="UTF-8"?><Document xmlns="urn:iso:std:iso:20022:tech:xsd:sese.023.001.07" xmlns:xsi="http:
2 <SctiesStlmTxInstr>
3 <TxId>01442100100100</TxId>
4 <StlmTpAndAddtlParams>
5 <SctiesMvmntTp>DELI</SctiesMvmntTp>
6 <Pmt>APMT</Pmt>
7 <CmonId>TRF200</CmonId>
8 </StlmTpAndAddtlParams>
9 <TradDtls>
10 <TradId>/PTY/TRF100</TradId>
11 <TradId>/UNDR/TRF300</TradId>
12 <StlmDt>
13 <Dt>
14 <Dt>2018-05-27</Dt>
15 </Dt>
16 </StlmDt>
17 <TradTxCond>
```

1. Discover  
format issues

2. Easy to  
fix and  
re-test

# A discovery-based approach to understanding specific formats

**On-Boarding Demo Portal** Published Refresh Settings User Download Help

**Related Tests**

- file1.zip/file1.xml **2 errors**
- file1.zip/file2.xml **Passed**
- file1.zip/file3.xml **Validating**

**2 errors** RCM PAIN.001.001.03 CT-XML (SEPA Credit Transfer) version 1.0 Import Orders (batchbooking TRUE and FALSE)  
07-05-2018 22:00

**Summary**

**Invalid message**

- 2 errors**
- 1 warnings**

Usage Guidelines: RCM PAIN.001.001.03 CT-XML (SEPA Credit Transfer) version 1.0 Import Orders (batchbooking TRUE and FALSE)

Version: ug version 2 updated  
Status: Draft  
Market: Asia  
Source: file1.zip/file1.xml  
Test Date: 06 May 2018 22:00 UTC  
Test User: bbeirmaert@gmail.com

[-] Pop [+Error] [+Warn] [+Info]

Auto Format:  On

file123.xml Upload Test

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <Doc:Document xmlns:Doc="urn:iso:std:iso:20022:tech:xsd:pain.001.001.03"xmlns:xs1="http://www.w3.org/2001/XMLSchema-instance">
3   <Doc:CstmrCdtTrfInitn>
4     <Doc:GrpHdr>
5       <Doc:MsgId>MSGID12345_POLARIS</Doc:MsgId>
6       <Doc:CreDtTm>2002-07-21T08:35:30</Doc:CreDtTm>
7       <Doc:Authstn>
8         <Doc:Cd>AUTH</Doc:Cd>
9       </Doc:Authstn>
10      <Doc:NbOfTx>1</Doc:NbOfTx>
11      <Doc:CtrlSum>11.4</Doc:CtrlSum>
12      <Doc:InitgPty>
13        <Doc:Nm>Initiating Party</Doc:Nm>
14        <Doc:Id>
15          <Doc:OrgId>
16            <Doc:BICOrBEI>CHASUS33</Doc:BICOrBEI>
17            <Doc:Othr>
18              <Doc:Id>ABCDEFGHIJKLMNQPQRST123456789012345</Doc:Id>
19              <Doc:SchmeNm>
20                <Doc:Cd>CUST</Doc:Cd>
21              </Doc:SchmeNm>
22            </Doc:Othr>
```

# A discovery-based approach to understanding specific formats

1 error 201\_001\_03\_sese\_023\_001\_07  
11-12-2018 03:05

**Summary**  
ERROR 1

**Error Details:**  
The value 'APMT' is not valid. It must be one of the following values : FREE  
[See documentation](#)

**Impacted lines:**  
201\_001\_03\_sese\_023\_001\_07  
ASX\_AU\_CHS\_hold ( Technical version: 7 )

ASX

Test Export

Content Result view History

View only restricted elements  Hide removed elements

search message (min 2 chars) Q X  Show xml tag

	Min	Max	Restrictions
Securities Settlement Transaction Instruction V07 (sese.02 3.001.07)			
Transaction Identification	1	1	
Settlement Type And Additional Parameters	1	1	
Securities Movement Type	1	1	
Payment	1	1	
Separate Settlement [FREE]			
Against Payment Settlement [APMT]			

Display full width

Payment

**Annotation**

**New Data Requirement**

- ASX Element Name: Payment.
- Type: Mandatory ISO 20022 Element not present in EIS
- Description: For hold.201, always use "FREE" as the transfer is free of payment between ASX holdings.

**Multiplicity**

[1..1]

3. Direct link to Documentation

Documentation is second line of support

4. Contextual questions to support

One click: I don't understand this error when I test this file against this guideline.





**Samples**

**History Export**

**Coverage**

**Migration**



For more information about MyStandards  
visit [mystandards.swift.com](https://mystandards.swift.com)

# SWIFT MyStandards and Readiness Portal access

How to request access to the MyStandards Community – ASX CHES Replacement:

- Email [CSPSupport@asx.com.au](mailto:CSPSupport@asx.com.au)
  - Include your name, email address (must be a corporate domain)

How to request set up of a Readiness Portal:

- Email [CSPSupport@asx.com.au](mailto:CSPSupport@asx.com.au)
  - Set up will be by organisation – so please coordinate within your organisation
  - Include your organisation name, all user names and email addresses
  - Users should already be set up in MyStandards, with access already provided to the ASX CHES Replacement Community

More details on how to access MyStandards, the ASX CHES Replacement Community and the Readiness Portal have been provided in the Technical Documentation.

# Forward Work Plan for Stakeholder Engagement

Connectivity & Integration Working Group

	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	Oct 19	Nov 19	Dec 19

Customer Development Environment

	6 Month Feature view 2		6 Month Feature view 3		6 Month Feature view 4		6 Month Feature view 5		6 Month Feature view 6		6 Month Feature view 7		
	Technical Docs 1			Technical Docs 2		Technical Docs 3		Technical Docs 4		Technical Docs 5		Technical Docs 6	
					Code drop 1		Code drop 2		Code drop 3		Code drop 4		Code drop 5

Implementation & Transition Working Groups

		Kick Off											

Focus Group

	AMOs Trade Reg.	Transfers & Conversions	Payment Providers										

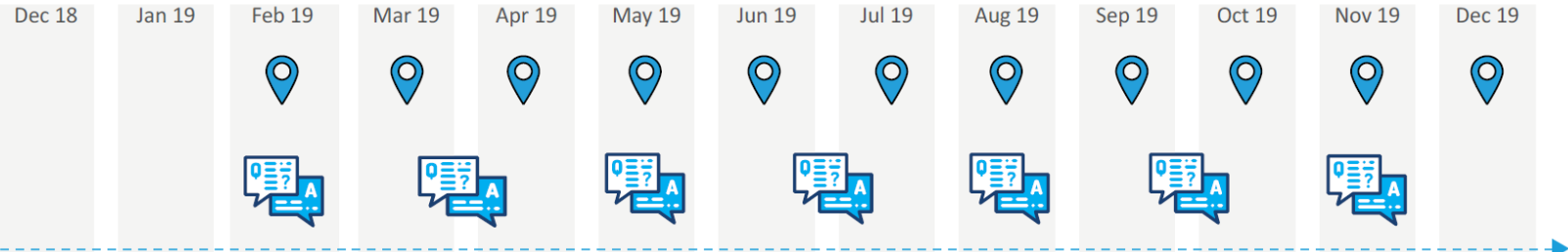
Placeholders: Topic TBD

\*Please note this is in draft form and subject to change

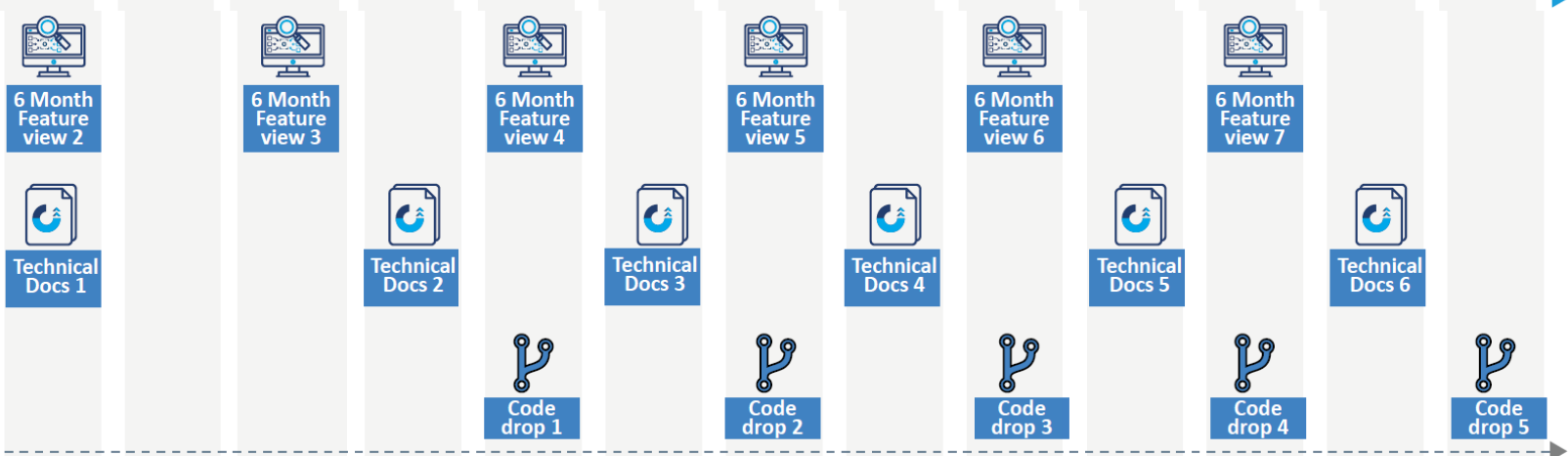
# Forward Release Plan

CDE Release	Tech Doc. Release	Code Release	Capabilities / Features
CDE Release 1	December 2018	April 2019	Foundation Set-Up / Onboarding Account and Holders Demand Transfers
CDE Release 2	March 2019	June 2019	Trade Capture Trade Registration Novation
CDE Release 3	May 2019	August 2019	To be provided February 2019
CDE Release 4	July 2019	October 2019	To be provided April 2019
CDE Release 5	September 2019	December 2019	To be provided June 2019
CDE Release 6	November 2019	February 2020	To be provided August 2019
CDE Release 7	February 2020	May 2020	To be provided October 2019

Connectivity & Integration Working Group



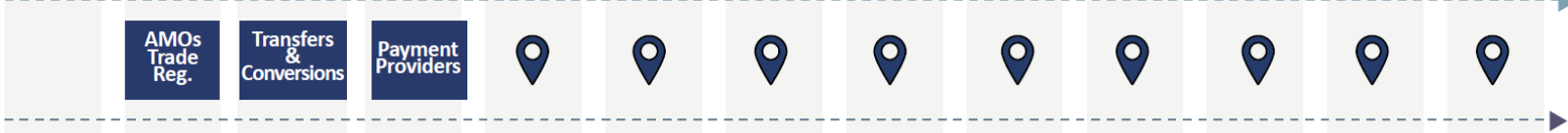
Customer Development Environment



Implementation & Transition Working Groups

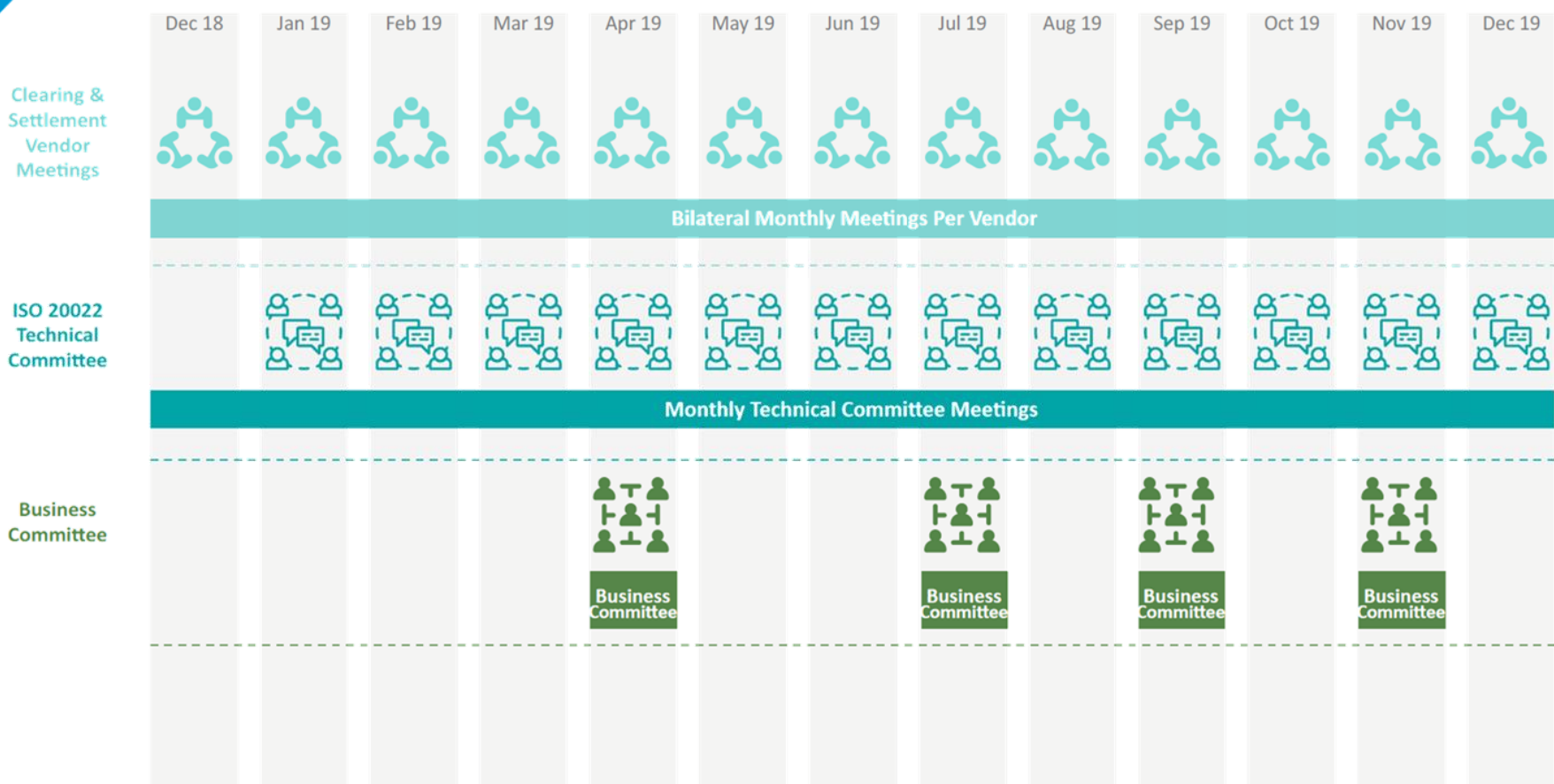


Focus Group



Placeholders: Topic TBD

\*Please note this is in draft form and subject to change





Q&A

# Closing

- > Technical documentation to be made available by end of the week – this will be announced by email
- > Forward calendar of events will be updated on CHES Replacement web page
- > Webinar recording and slides will be published to CHES Replacement webpage
- > Contact [CSPSupport@asx.com.au](mailto:CSPSupport@asx.com.au) with any queries related to technical documentation
- > Contact [CHESReplacement@asx.com.au](mailto:CHESReplacement@asx.com.au) with any other matters

Thank you.

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