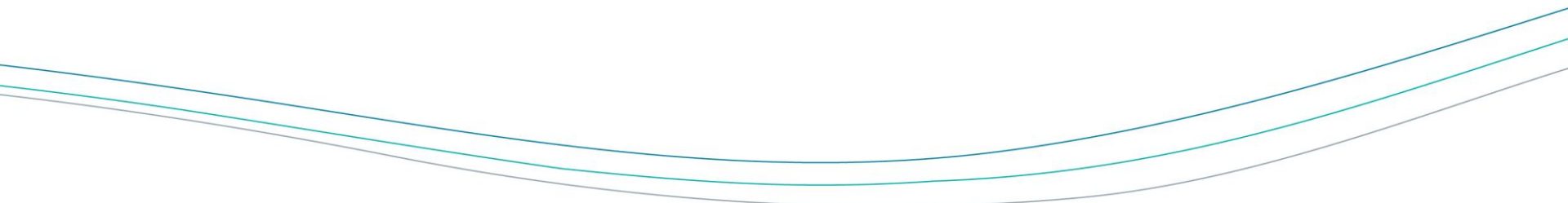


Bilateral Transactions Programme

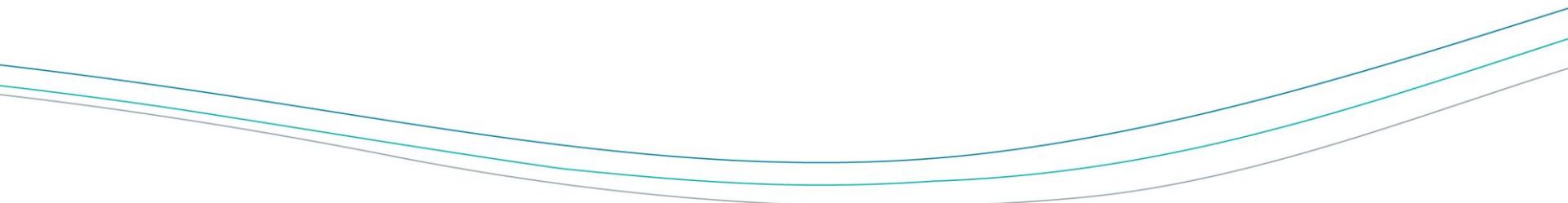
Pathfinder Group – meeting 11

16 March 2021

Agenda

- ◆ **Welcome and introductions – (5 mins)**
 - ◆ Review of previous meeting minutes/actions – (10 mins)
 - ◆ MOSL update – (15 mins)
 - ◆ Assurance & Implementation – (20 mins)
 - ◆ AOB – (10 mins)
- 

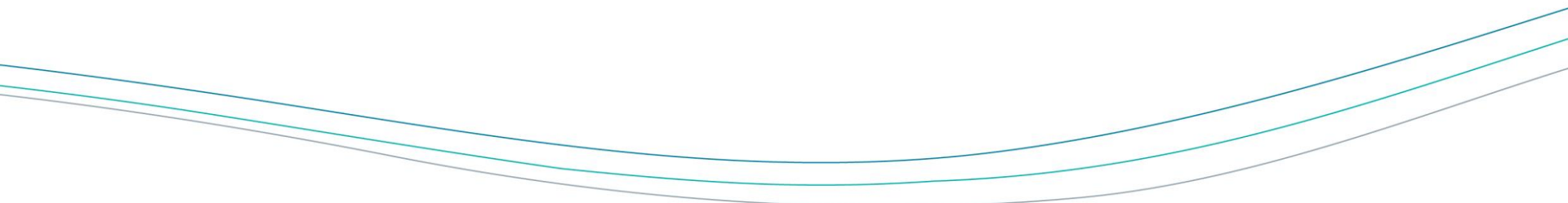
Agenda

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- 

Actions

Action	Owner	Status
To provide a response to United Utilities with regards to C1 Summary Pack feedback	Miles Robinson (MOSL)	Completed
To provide a response to Northumbrian Water with regards to C1 Summary Pack feedback	Miles Robinson (MOSL)	Open
Review the Membership of the Pathfinder Group	Miles Robinson (MOSL)	Open

Agenda

- ◆ Welcome and introductions – (5 mins)
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- 

Programme status overview



Programme status

- Time
- Quality
- Budget

Key

- Completed
- In progress
- At risk
- Not started

Requirements & development

PHASE 2: All C1 user requirements delivered to tech delivery. 'Change freeze' now in place
 PHASE 3: B5 user requirements drafted and reviewed
 Testing by MOSL ongoing and Pathfinder testing available (currently one TP testing)
 Delivery timeline readiness for both MOSL and trading parties
 'MVP+' user requirements being drafted (e.g. email notifications, fourth phase of transfers)
 C1 Summary/Sign off pack circulated to advisory groups for support
 Fortnightly sprint-level reports issued to Contract Managers

Pathfinder Group

HVI testing system integration tests started in February
 LVI testing with web portal users starts late March

Code change process

Progress against plan - code change docs
 Issue bi-monthly Ofwat 'Working Level Report' for C1-related code changes
 Review and acceptance of documentation by Ofwat, CAG, Panel

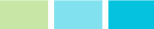
Legal

C1.W added to Data Protection Impact Assessment (DPIA) - awaiting confirmation

Prioritisation

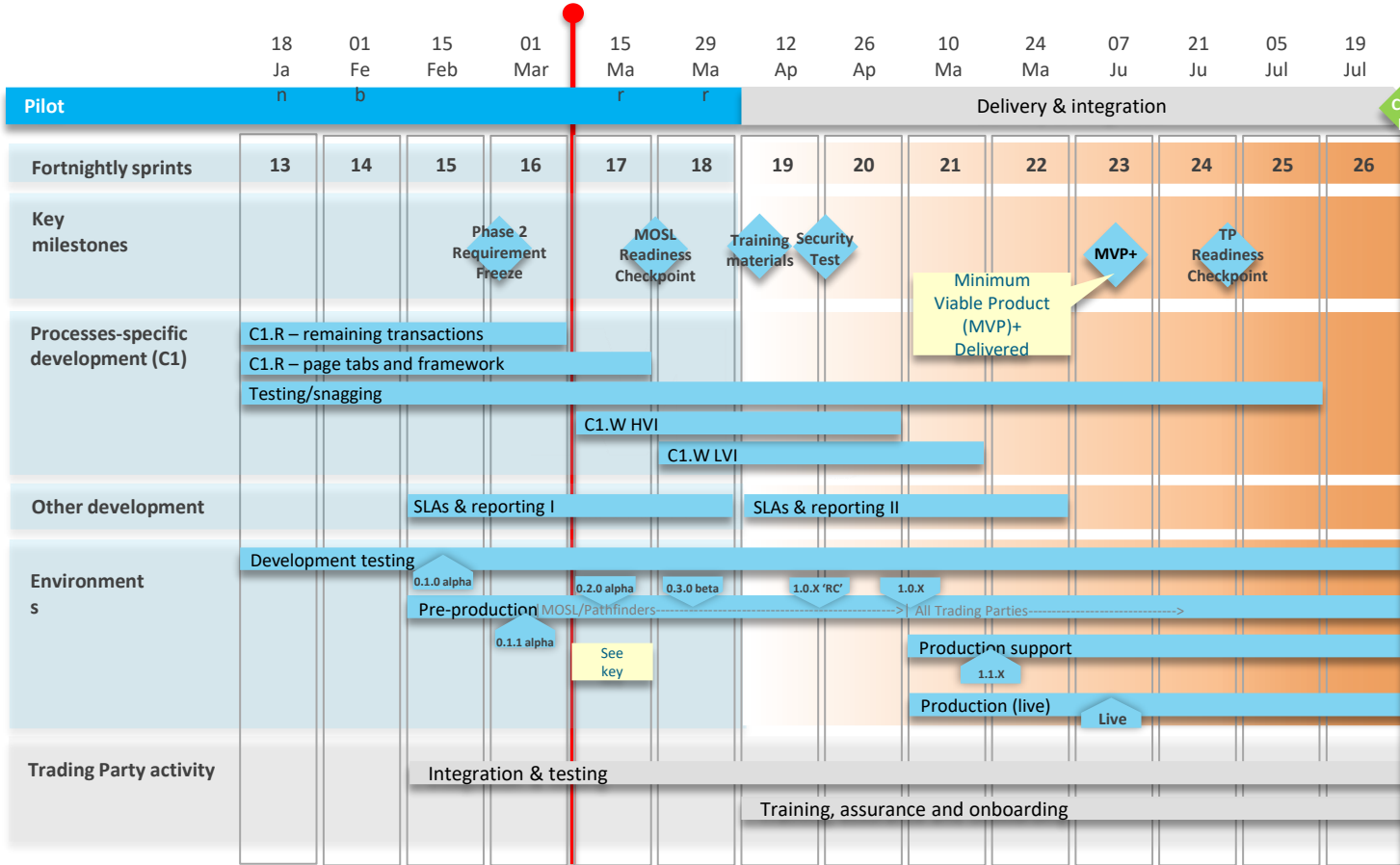
No change to priority order planned

Jan Feb Mar



Status moved from 'complete' to 'in progress'

Phase 2 delivery milestones



C1 go live

Mandatory adoption point (LVI / HVI)

Phase 2 (advanced) functionality:

1. Deferrals/SLAs
2. Reporting
3. Document uploading
4. Transfer in progress
5. Corrections

Functionality post July:

1. Email notifications
2. Third party SPIDS
3. De-registered SPIDS
4. Export functionality
5. Save as draft
6. Bulk Upload MVI

Go/no-go factors:

- MOSL go/no go dependent on delivering C1.R (sprint 17)
- Trading Party go/no go dependent on readiness/integration, etc.

Key to testing stages:

1. 0.1.0 alpha
2. 0.1.1 alpha
3. 0.2.0 alpha
4. 0.3.0 beta
5. 1.0.0 'Release Candidate' (version that is being readied to release to trading parties)
6. 1.1.0 'Release Candidate'
7. 1.1.0 Live
8. 1.1.X future iterations in live environment

Sprint 16 closing summary

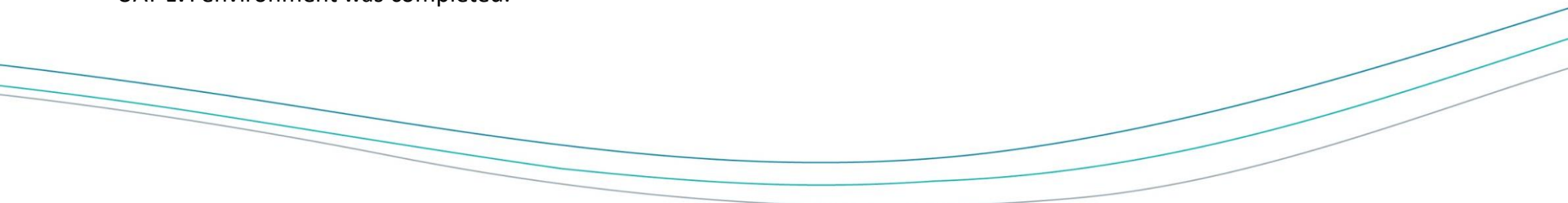
Sprint Goal

- Complete the LVI UAT environment for release; to be able to release to UAT at the end of Sprint 16 LVI Submit functionality and working transactions.
- Progress the Corrections tab functionality in LVI to set status to completed such that it can be completed in Sprint 17.

Goal Achieved?

- Partial

Commentary

- Sprint Goal not achieved in part 'to be able to release to UAT at the end of Sprint 16 LVI Submit functionality and working transactions'. This is due to changes in CSD0601v0.8 and re-work from the demo build impacting the front end and creating errors which need to be investigated and resolved. Expected to be complete first half of Sprint 17.
 - Good progress was made on the corrections/completed status to enable completion in Sprint 17.
 - UAT LVI environment was completed.
- 

Sprint Goal

- Complete HVI and LVI functionality including XML and JSON as such that it can be handed over to UAT environment as a Beta Release at the end of Sprint 17.

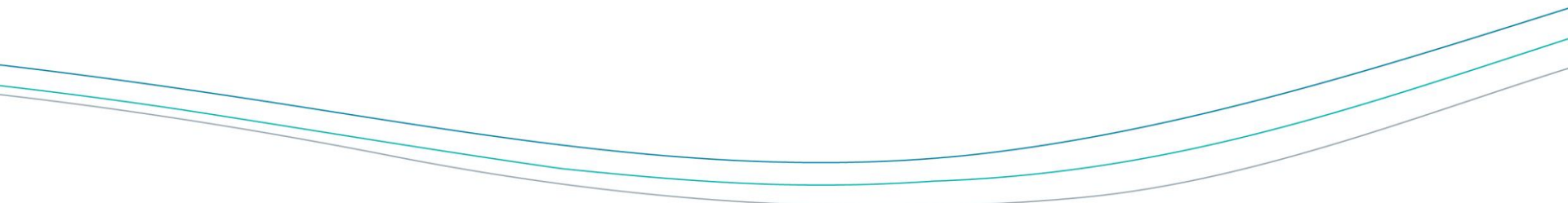
Commentary

Risks/Issues affecting delivery quality or delivery dates

- That all new validation rules cannot be completed in this Sprint which would change the planned Beta release to an Alpha release.
- The front-end release to MOSL to review for snags is not released early enough in this sprint to enable a Beta release at the end of the Sprint.

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Agenda

- ◆ Welcome and introductions – (5 mins)
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 - ◆ **Assurance & Implementation – (20 mins)**
 - ◆ AOB – (10 mins)
- 

Objectives

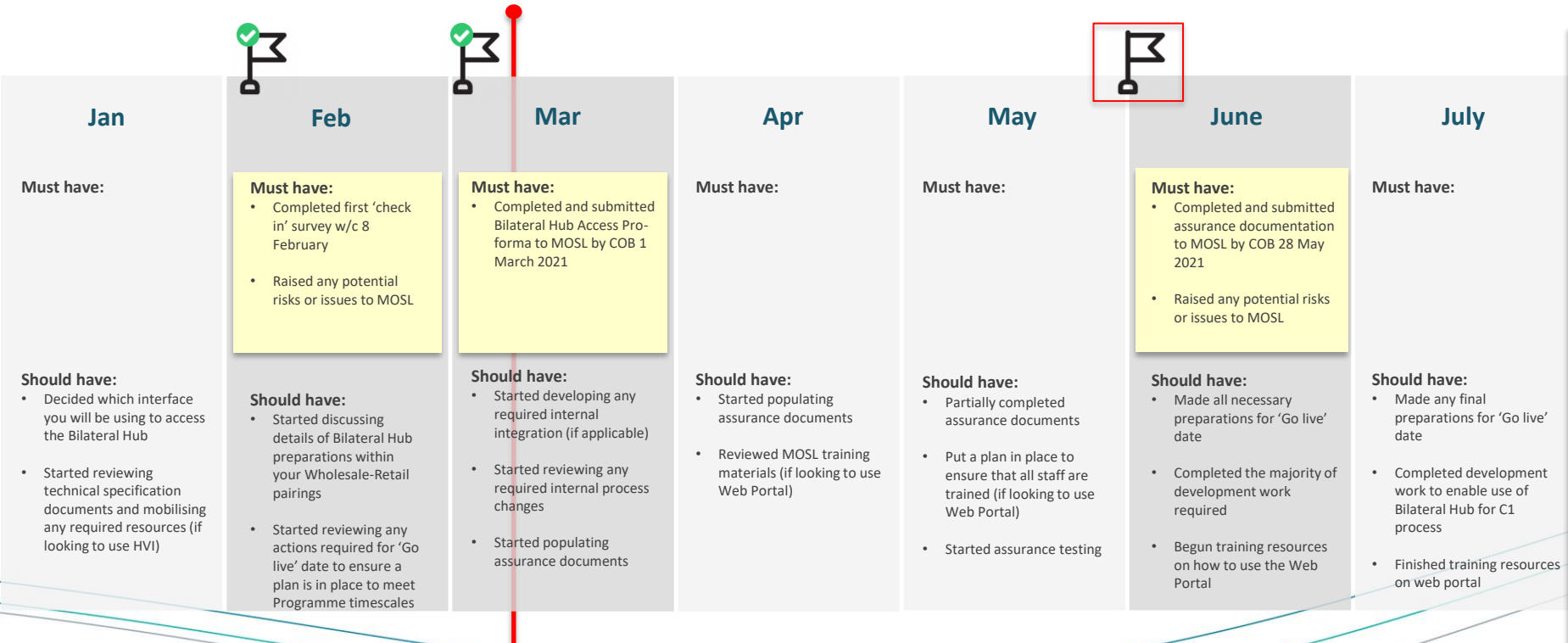
- ◆ To seek approval from Pathfinder Group Members on assurance approach and timeline
- ◆ To review the **Test Script Pro-forma** for Bilaterals and for feedback to be captured ahead of circulation of assurance documents
- ◆ Enable the circulation of assurance documents **by Friday 19 March 2021.**

Summary of feedback

Key feedback from Pathfinder Group Members:

- ◆ Timing
- ◆ Structure of forms
- ◆ Specific question feedback

Implementation checkpoints



Mandated use of C1 via bilateral hub

Checkpoint 3 – Bilateral Hub Assurance

Checkpoint 3 (A) Due 28 May 2021



Assurance Form submitted to MOSL

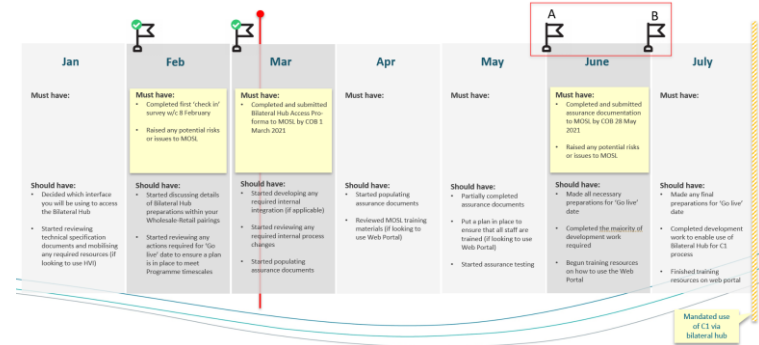
- Trading Parties to provide details around:
 - Processes
 - Moving between systems
 - Resources (including training plans)
 - Business continuity
 - GDPR
 - Test approach (for HVI users)

Checkpoint 3 (B) Due 30 June 2021

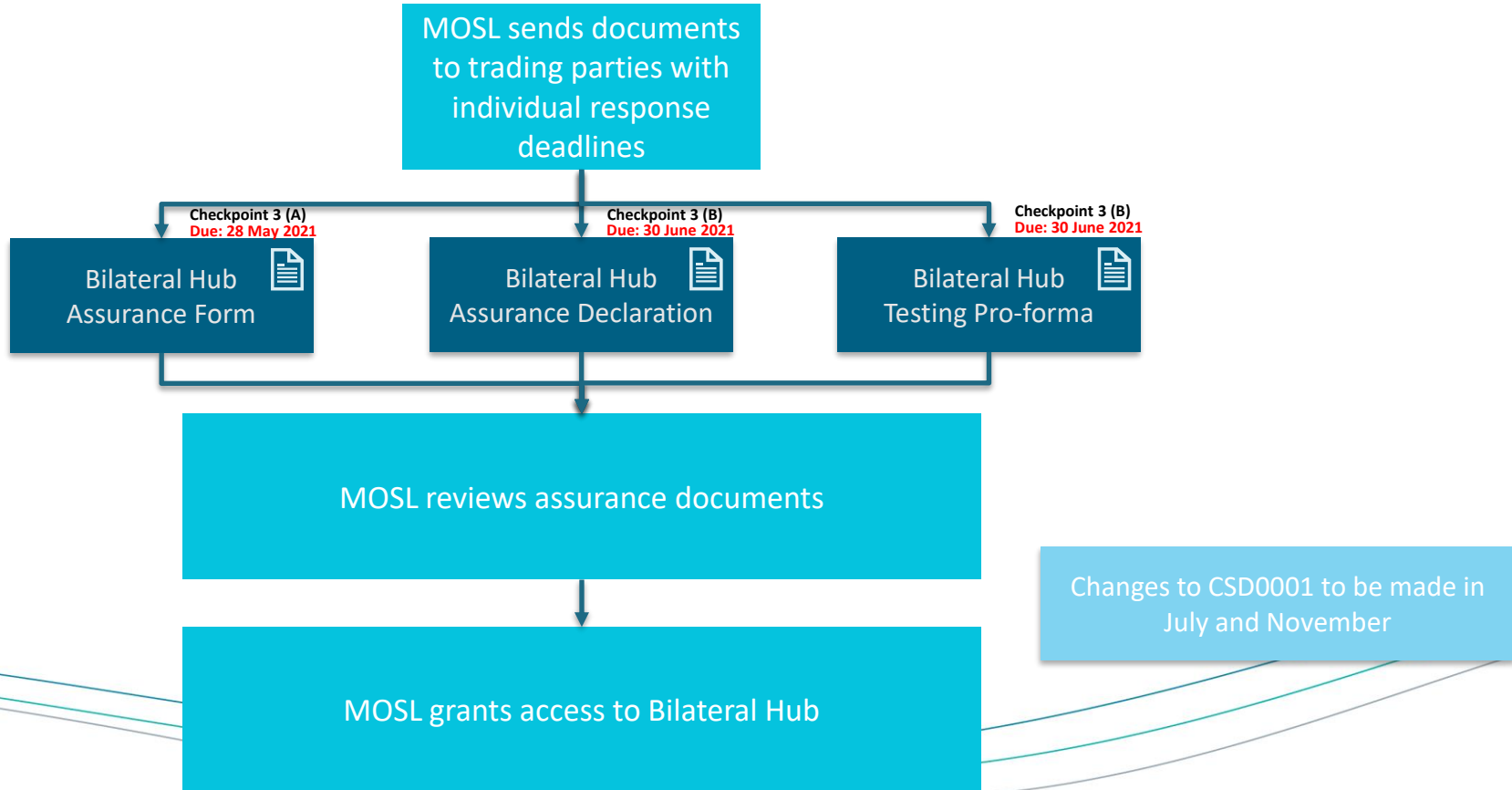


Test Script Pro-forma & Assurance Declaration submitted to MOSL

- Trading Parties to provide:
 - Evidence of successful connection tests
 - Evidence of successful scenario tests
 - A signed declaration confirming their self-assurance has been carried out.



Question: Does this allow for enough time for assurance testing?



Bilateral Hub – Assurance Form

- ◆ All trading parties must provide assurance on:
 - ◆ Moving between systems
 - ◆ Processes
 - ◆ Resources including training
 - ◆ Business continuity
 - ◆ GDPR

- ◆ For HVI users (in addition to the above):
 - ◆ Test results
 - ◆ Test governance approach
 - ◆ Defect management

- ◆ Q: How will HVI user carry out testing?
- ◆ A: It is recommended HVI users' partner with another Wholesaler/Retailer HVI user for testing purposes. MOSL can assist if this is not possible

- ◆ Q: HVI users are not registered in Production LVI, will they have to wait for their solution to be back online?
- ◆ A: We are not mandating HVI business continuity is to use the LVI, we do expect HVI users to have their own continuity and DR procedures in place. If they wish to use LVI then they would need a certificate for LVI.

- ◆ Q: Are MOSL expecting inflight requests to be transferred?
- ◆ A: MOSL are not expecting inflight requests to be transferred to the Hub

- ◆ Q: Are MOSL expecting Trading Parties to create their own training material?
- ◆ A: MOSL will provide training material for the Hub, Trading Parties are expected to provide any additional training material they feel necessary to support their teams

- ◆ Q: Are MOSL expecting 3rd Parties to provide training material for their solutions?
- ◆ A: This is dependent on the agreement Trading Parties and 3rd Parties have in place

Assurance Form - Changes

Draft wording	Revised wording
<p>This Bilateral Hub Assurance Form contains multiple sections that Trading Parties are required to complete and submit back to MOSL in order to provide assurance to MOSL and Ofwat that the appropriate capability has been put in place to continue to meet their market requirements following the implementation of the Bilateral Transactions Hub.</p>	<p>This Bilateral Hub Assurance Form contains multiple sections that Trading Parties are required to complete and submit back to MOSL in order to provide assurance to MOSL and Ofwat that the appropriate capability has been put in place to continue to meet their market requirements following the implementation of the Bilateral Transactions Hub.</p> <p>Assurance for the Bilateral Hub is intended to be a 'one-off' activity to take place ahead of Trading Parties being provided access to the Bilateral Transactions Hub.</p> <p>Please note: if a Trading Party completes assurance based on its intended use of the Web Portal (LVI) and wishes to change to use a system-to-system integration (HVI) at a later date, it would be required to undergo further assurance.</p>

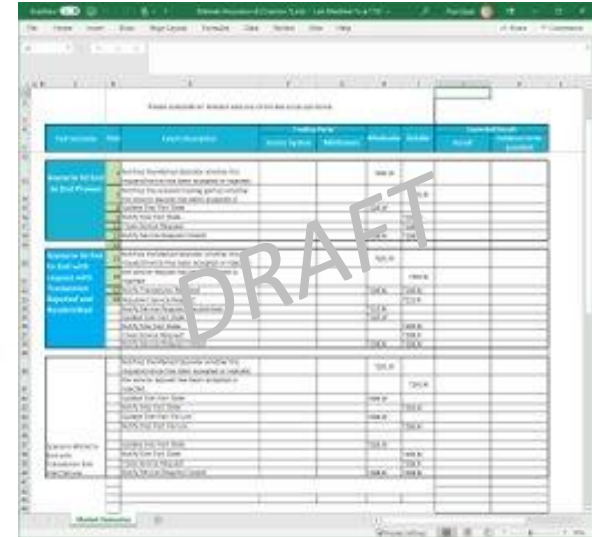
Assurance Form - Changes

Draft wording	Revised wording
<p>Trading Parties should complete each of the above sections and send the completed Bilateral Hub Assurance Form and Bilateral Hub Test Script Pro-forma to bilaterals@mosl.co.uk no later than close of business on 28 May 2021.</p>	<p>Trading Parties should complete each of the above sections and send the completed Bilateral Hub Assurance Form to bilaterals@mosl.co.uk no later than close of business on 28 May 2021.</p> <p>In addition to the Bilateral Hub Assurance Form, Trading Parties should submit a completed Bilateral Hub Test Script Pro-forma and signed Assurance Declaration to bilaterals@mosl.co.uk no later than close of business on 30 June 2021.</p>

Bilateral Hub – Assurance Test Script Pro-forma

- ◆ Two levels of testing :
 - ◆ Level one for all Trading Parties:
 - ◆ Loading certificates
 - ◆ Successful connection to Hub Test environment
 - ◆ LVI testing completed via the Automated Test Environment

- ◆ Level two for HVI users (in addition to the above):
 - ◆ T321 happy path
 - ◆ T203/204 additional information required
 - ◆ T215/216 with attachments
 - ◆ T213/214 deferral process
 - ◆ T324/325 dispute proposed correction plan for C1
 - ◆ Transaction validation failures



Test Scenario	Test Description	Status	Priority	Created	Updated
Scenario 1	Scenario 1 description	Pass	High	2023-01-01	2023-01-01
Scenario 2	Scenario 2 description	Fail	Medium	2023-01-02	2023-01-02
Scenario 3	Scenario 3 description	Pass	Low	2023-01-03	2023-01-03
Scenario 4	Scenario 4 description	Pass	High	2023-01-04	2023-01-04
Scenario 5	Scenario 5 description	Pass	Medium	2023-01-05	2023-01-05
Scenario 6	Scenario 6 description	Pass	Low	2023-01-06	2023-01-06
Scenario 7	Scenario 7 description	Pass	High	2023-01-07	2023-01-07
Scenario 8	Scenario 8 description	Pass	Medium	2023-01-08	2023-01-08
Scenario 9	Scenario 9 description	Pass	Low	2023-01-09	2023-01-09
Scenario 10	Scenario 10 description	Pass	High	2023-01-10	2023-01-10

Web portal users – Test script

Test Scenario	Step	Event Description	Trading Party				Expected Result		
			Source System	Middleware	Wholesaler Transaction	MOSL Bilateral Hub Transaction	Retailer Transaction	Result	Evidence to be provided
Scenario #1 Register connectivity	1	Trading Party establish basic connectivity via web portal							
	2	Trading Party submit a single Bilateral form							
	3	Peek and Dequeue responses received							
Scenario #2 Transaction rejected	1	Trading Party establish basic connectivity via web portal							
	2	Trading Party submit a single Bilateral form							
	3	Transaction rejected							

System to system integration users – Test scenario 3

Test Scenario	Step	Event Description	Trading Party			Expected Result			
			Source System	Middleware	Wholesaler Transaction	MOSL Bilateral Hub Transaction	Retailer Transaction	Result	Evidence to be provided
Scenario 3# End to End with Meter Verification completed	1	Request Meter and Supply Arrangement Verification					T321.R		
	2	Notify Meter and Supply Arrangements Verification				T321.M			
	3	Notifies the Market Operator whether the request/notice has been accepted.			T201.W				
	4	Notifies the relevant trading parties whether the service request has been accepted.				T201.M			
	5	Update Site Visit Date			T205.W				
	6	Notify Site Visit Date				T205.M			
	7	Update Corrections Complete for C1			T322.W				
	8	Notify Corrections Completed for C1				T322.M			
	9	Close Service Request					T208.R		
	10	Notify Service Request Closed				T208.M			

System to system integration users – Test scenario 4

Test Scenario	Step	Event Description	Trading Party		Wholesaler Transaction	MOSL Bilateral Hub Transaction	Retailer Transaction	Expected Result	
			Source System	Middleware				Result	Evidence to be provided
Scenario 4# End to End with Meter Verification completed with Disputed Correction Plan	1	Request Meter and Supply Arrangement Verification					T321.R		
	2	Notify Meter and Supply Arrangements Verification				T321.M			
	3	Notifies the Market Operator whether the request/notice has been accepted.			T201.W				
	4	Notifies the relevant trading parties whether the service request has been accepted.				T201.M			
	5	Update Site Visit Date			T205.W				
	6	Notify Site Visit Date				T205.M			
	7	Visit Complete and Preparing plan			T212.W				
	8	Notify Visit Complete and Preparing Plan				T212.M			
	9	Propose Corrections Plan for C1			T323.W				
	10	Notify Proposed Corrections Plan for C1				T323.M			
	11	Dispute Proposed Corrections Plan for C1					T325.R		
	12	Notify Corrections Plan Disputed for C1				T325.M			
	13	Propose Corrections Plan for C1			T323.W				
	14	Notify Proposed Corrections Plan for C1				T323.M			
	15	Agree Proposed Corrections Plan for C1					T324.R		
	16	Notify Corrections Plan Agreed for C1				T324.M			
	17	Update Corrections Complete for C1			T322.W				
	18	Notify Corrections Completed for C1				T322.M			
	19	Close Service Request					T208.R		
	20	Notify Service Request Closed				T208.M			19

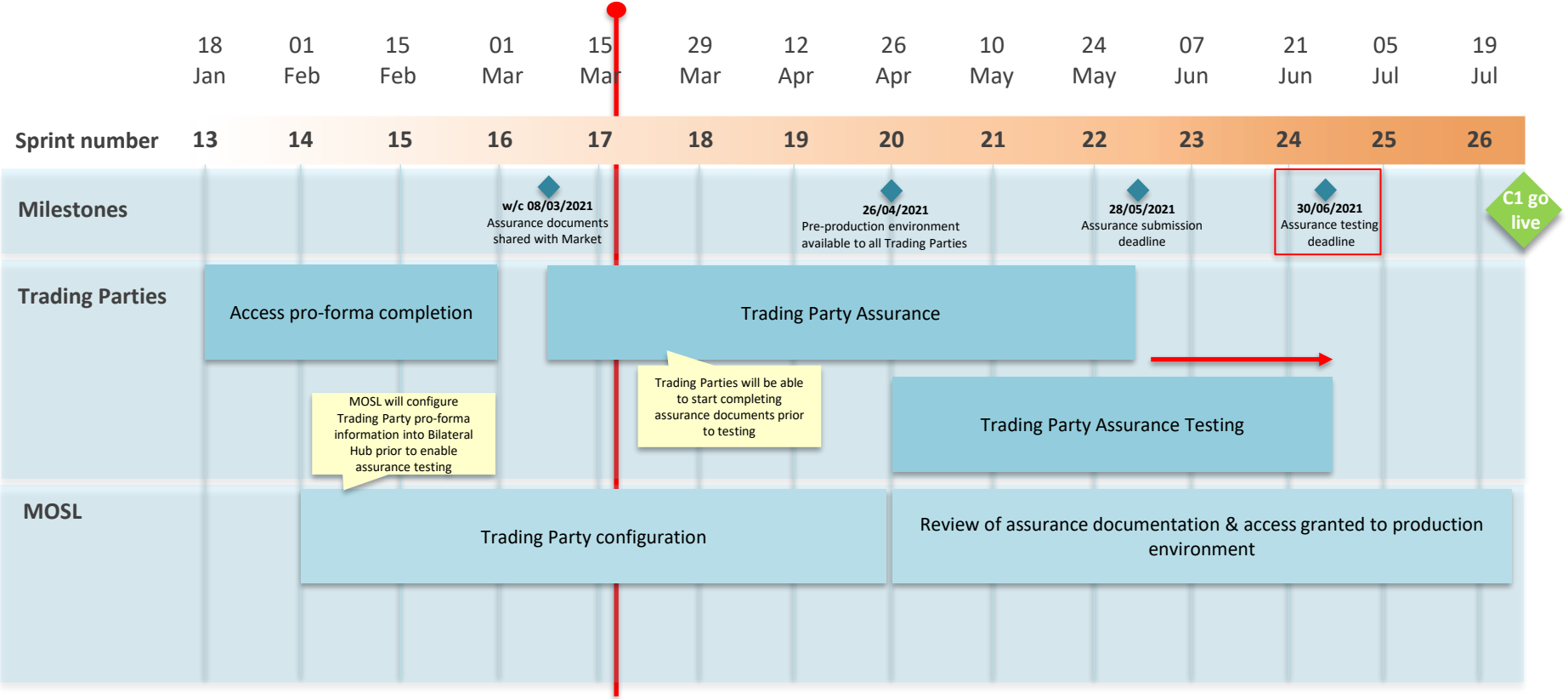
System to system integration users – Additional test scenarios

- ◆ Scenario 5# End to End with Meter Verification completed with Attachment
- ◆ Scenario 6# End to End with Meter Verification completed with Deferral
- ◆ Scenario 7# Wholesaler led End to End with Meter Verification
- ◆ Scenario 8# End to End with Meter Verification completed with a system rejection



Scenario	Test Step	Duration	Start Time	End Time	Status
Scenario 5# End to End with Meter Verification completed with Attachment	1 Request Meter and Supply Arrangement Verification	7:33.00			
	2 Verify Meter and Supply Arrangement Verification	7:33.00			
	3 Verify the Market Operator whether the request has been accepted.	7:35.00			
	4 Verify the relevant trading partner whether the service request has been accepted.	7:35.00			
	5 Update Site Visit Date	7:35.00			
	6 Verify Site Visit Date	7:35.00			
	7 Update Connection Complete for CS	7:32.00			
	8 Verify Connection Complete for CS	7:32.00			
	9 Verify Service Request	7:32.00			
	10 Verify Connection Complete for CS	7:32.00			
Scenario 6# End to End with Meter Verification completed with Deferral	1 Request Meter and Supply Arrangement Verification	7:33.00			
	2 Verify Meter and Supply Arrangement Verification	7:33.00			
	3 Verify the Market Operator whether the request has been accepted.	7:35.00			
	4 Verify the relevant trading partner whether the service request has been accepted.	7:35.00			
	5 Update Site Visit Date	7:35.00			
	6 Verify Site Visit Date	7:35.00			
	7 Update Connection Complete for CS	7:32.00			
	8 Verify Connection Complete for CS	7:32.00			
	9 Verify Service Request	7:32.00			
	10 Verify Connection Complete for CS	7:32.00			
Scenario 7# Wholesaler led End to End with Meter Verification	1 Request Meter and Supply Arrangement Verification	7:33.00			
	2 Verify Meter and Supply Arrangement Verification	7:33.00			
	3 Verify the Market Operator whether the request has been accepted.	7:35.00			
	4 Verify the relevant trading partner whether the service request has been accepted.	7:35.00			
	5 Update Site Visit Date	7:35.00			
	6 Verify Site Visit Date	7:35.00			
	7 Update Connection Complete for CS	7:32.00			
	8 Verify Connection Complete for CS	7:32.00			
	9 Verify Service Request	7:32.00			
	10 Verify Connection Complete for CS	7:32.00			
Scenario 8# End to End with Meter Verification completed with a system rejection	1 Request Meter and Supply Arrangement Verification	7:33.00			
	2 Verify Meter and Supply Arrangement Verification	7:33.00			
	3 Verify the Market Operator whether the request has been accepted.	7:35.00			
	4 Verify the relevant trading partner whether the service request has been accepted.	7:35.00			
	5 Update Site Visit Date	7:35.00			
	6 Verify Site Visit Date	7:35.00			
	7 Update Connection Complete for CS	7:32.00			
	8 Verify Connection Complete for CS	7:32.00			
	9 Verify Service Request	7:32.00			
	10 Verify Connection Complete for CS	7:32.00			

Bilateral Hub - assurance timeline



Feedback

- ◆ Timing
- ◆ Structure of forms
- ◆ Specific question feedback





Action taken

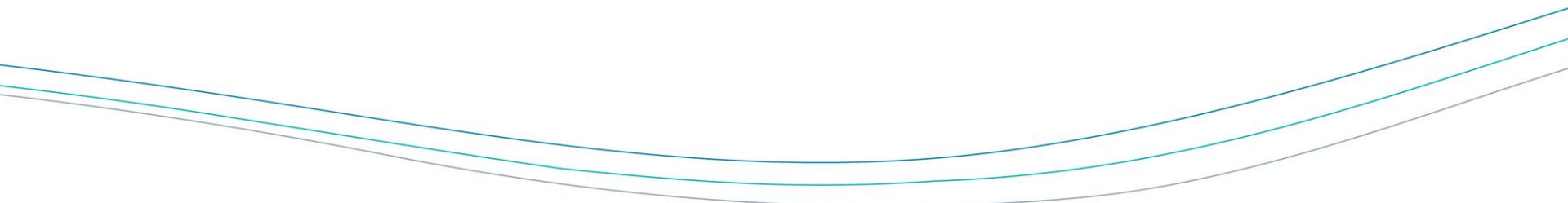
- ◆ Revised assurance timeframes and added an additional 'checkpoint'
- ◆ Separated the Assurance Form and Declaration
- ◆ Discussed Training, HVI Testing and Portal access for HVI users for Business Continuity

Decision: Are Pathfinder Members happy to support the revised assurance approach?

Assurance - next steps

- ◆ Assurance documents to be shared with Market **by Friday 19 March**
- ◆ Test environment will be available to all Trading Parties from **w/c 26 April**
- ◆ All Trading Parties to have provided completed **Assurance Form by Friday 28 May 2021 (Checkpoint 3A)** 
- ◆ All Trading Parties to have provided completed **Test Script Pro-forma & Assurance Declaration by Wednesday 30 June 2021 (Checkpoint 3B)** 

Agenda

- ◆ Welcome and introductions – (5 mins)
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 - ◆ MOSL update – (15 mins)
 - ◆ Assurance & Implementation – (20 mins)
 - ◆ **AOB – (10 mins)**
- 

Please:

- 💧 Raise your (virtual!) hand
- 💧 Comment in chat
- 💧 Email bilaterals@mosl.co.uk