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XRN4572 Future Release 3 - Market Trials Testing Approach

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Contents

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1. Introduction

UK Link Future Release 3 is due to be implemented on the 3rd November. Over the course of the Project, Xoserve have engaged Customers on their requirements to test Change Requests (CRs) within the scope of Release 3 and it has been identified a Market Trials Testing phase will be beneficial for the both internal and external parties impacted by these changes.

Market Trials participation is expected to be voluntary and registration process and links have been issued separately to parties via email. This document details the proposed high level testing strategy to gain Customer agreement.

1.1 Purpose

The primary objectives of this document are:

- To provide the scope and objectives for Market Trials
- Define the entry and exit criteria for Market Trials
- Define the Environment and Data requirements
- Identify and describe the Test deliverables
- Define the High level timeframes and Key Dates
- Define the Testing Controls and Governance

1.2 Audience

This document should be read & understood by stakeholders of the Release 3 project. The activities will involve interaction with the following key stakeholders

- Release 3 Project Team
- Xoserve CCO teams
- IS Operations
- Customers – Shipper, IGT and GT's (External)

2. Market Trials Objectives and Scope

2.1. Objectives

The objectives of Market Trials are :

- To prepare external parties and Xoserve for the introduction of the changes in scope of Future Release 3 and to verify that Xoserve' s and industry systems work as intended
- To provide an opportunity for all registered participants to prove the changes in scope work by verification of their test scenarios through the execution of test cases.
- To provide the opportunity for registered Stakeholders and Xoserve to identify, address and resolve any issues prior to implementation to ensure the system is ready to go live.
- To provide all Stakeholders in Market Trials with the opportunity for familiarisation with the changes being introduced

2.2. In-Scope

13 changes (please refer to appendix) which form Track 1 of Release 3 are in scope of Market Trials (MT). To support MT test planning, Xoserve have compiled a list of impacted stakeholders for each change for verification, please see Appendices 1,2.
Systems in scope and connected for Market Trials are IX, SAP PO, Marketflow, EFT,SAP ISU,SAP BW, CMS, BODS and Portal.
The following sub-sections outline the activities in scope of Market Trials

2.2.1. MT Preparation

- Registration of Interest in R3 MT Phase 1 for 13 CRs (Registration Closed)
- Environment and Data preparation (Xoserve)
- Data issuance - Key data issued to parties who wish to participate in MT
- Connectivity Testing with Market

2.2.2. MT Execution

- Functional readiness (Entry to MT)
- Market readiness
- Non-monthly processes
- Monthly processes

2.2.3. Verification

- Confirmation from Industry

2.2.4. Communication

- DSG engagement with Market Parties
- MT Pre- meets for 4 weeks pre MT via Webex
- Daily calls during MT execution
- Xoserve.com updates
- Reporting to MT participants followed by weekly wash-up sessions for duration of MT

2.3. Out Of Scope

The following section outlines the functional areas out of scope for Market Trials:
- Any other system changes not within the scope of the 13 changes listed above for Release 3
- Provision of advice or remedies relating to systems owned or managed by external parties.
- Non functional requirements are being tested as part of Xoserve Testing for the release.
- Defects that are known in the production systems and are not as a result of the change.

3. Strategy for Testing

3.2. Testing Plan
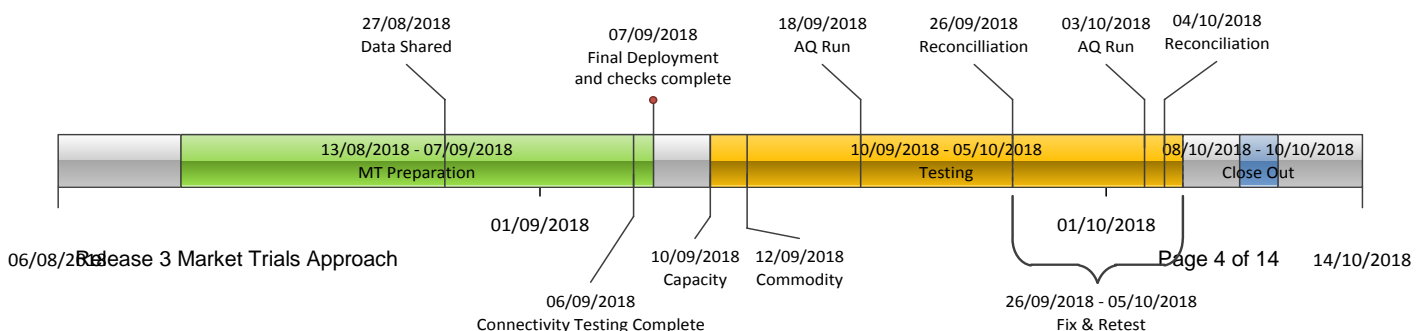
3.3.   Testing Process

CR Level Plan

UKL FR
R3_MT_CRWise_Plan

MT Scenarios identified can be found in the below attachment

FR3
MarketTrials_High Lev

3.4.   Testing Process Detail

3.4.1.   MT Preparation

Key Xoserve activities include:
* Environment Preparation
* Environment Setup (including Control M , EFT, SD Plus)
* Code Deployment (principles including defect handling)
* Data preparation
* Connectivity Testing with Industry

Market participant activities include:
* Functional Changes within Industry's systems
* Data Conditions
* Preparing MT Test Scenarios
* Connectivity Testing with Xoserve

Environment

* A new Market Trials environment has been setup to aid industry testing of changes in scope of R3. All applicable Xoserve systems applications will be operational – e.g. IX, EFT, SAP IS-U, SAP PO, Marketflow, SAP BW, CMS. Regular health checks and monitoring will be carried out by Xoserve teams to ensure smooth running of Market Trials.

Code Management and Deployment

* Full User Acceptance Testing (UAT) is being carried out before the R3 code changes are signed off by Xoserve business to enter Market Trials Testing.
* All defects identified within Acceptance Testing as a result of the change will be fixed and fully retested prior to commencement of MT and the last deployment of code into the MT environment.

Data

* In order to ensure that all registered parties use the data relevant to them and enable full testing to take place, Market Trials environment has been refreshed with cut scale version of

production data containing MPRN's across LDZ's-Network-Shipper combination. This data will be used as 'test' data for purposes of Market Trials

- Data cut within MT environment pre-dates to 9th April 2018 position. There are no shipper-less sites considered in the data cut.
- A cut of key data being held within the MT environment will be shared with each organisation wishing to participate in R3 MT.
- This will allow the Market to use the 'data cut' for selection against test scenarios specific to the CRs they wish to test. Please note that there is no dummy data being created for MT.
- Where industry wants to test a special data condition scenario like interconnectors, SSMP or a shipper-less site, Xoserve request it be informed of the MPRN's to be used 5 working days in advance to aid in data preparation.
- There is no data masking requirements considered for MT data to ensure Data is 'production like' and expected to be shared only with the relevant organisations who are allowed to view/transact with this data. Data security rules are as per UNC.

Industry
- Work with Xoserve data 'cut' to understand the data needed for the relevant scenarios within the scope of testing.
- Confirm data sufficiency against the key data received (please note that there will be CRs within R3 that cannot be tested by all parties due to limitation of individual portfolios and/or test data provision with MT environment) MPRNs could be used for multiple tests
- Industry parties are requested to highlight any specific data queries against the changes being tested as early as possible to enable Xoserve to help answer these in a timely manner
- Please note that no volume testing for CRs is expected to take place as part of MT

Connectivity Testing

- A phase of connectivity testing has been provisioned to allow Industry parties wishing to participate in MT.
- This phase is crucial to ensure parties can process MT 'test' files in the correct format and ensure that they are able to connect with Xoserve systems to participate in MT from 10th September.

Functional Changes within Industry Systems

Ensure that the relevant functional changes needed within Industry systems are completed in time to commence MT

Preparation of Test Scenarios

- All parties are expected to determine relevant scenarios needed to test the CRs.
- Xoserve is to provide a high level view of suggested test scenarios that could be used by parties to determine the above

Industry
- Participate in connectivity testing between 3rd and 6th of September to send us a 'test' file to ensure connectivity is established and tested to ensure a smooth MT start from 10th September
- Confirm that access has been tested and confirmed as successful

3.4.2. MT Execution

![XOserve logo]

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FR3 File Transfer
Principles.pptx

- Market Trials execution is expected to commence from 10th September and largely automated using 'production like' systems and interfaces where possible.
- File receipt and processing is monitored by Xoserve and any major anomalies will be flagged to participants. The batch processes are expected to run throughtout as per current processes and response files are 'auto-issued' by the system.
- It is imperative to note and use the file formats specified for R3 MT to ensure files reach the correct location to be picked up by EFT.
- Only file formats conforming to TNxxxxxxABC are to be used. A detailed note on file transfers with Formatting instructions are to be issued by Xoserve.
- All activity throughout Market Trials will take place in "real time" and there will be limited accelerated timelines, therefore, it is essential that all parties understand the lifecycle and requirements to ensure that full testing can take place.
- Identified within the plan are two blocks of testing (Block A are non – invoice runs) and indicated is the first time E2E testing can start to ensure a full lifecycle is tested. Block B CRs potentially require a invoice scenario and indicated within the plan is the final time E2E testing can start to ensure a full life cycle is complete. Testing can continue after this date until the end of Market Trials execution on the 5th October, however, would have to be component testing as another billing run may not be possible except for defect retesting.
- Service desk is to be used for defect management during the MT phase and these details will also be issued to market parties before MT commences.

3.4.3. Verification

Approval emails for each change requested to test will be sought in order to exit testing we request you use the below email template to inform us by email that you are happy or have issues with the output files received.

RELEASE 3 - MARKET
TRIALS – CONFIRMAT

All emails to be sent to the .box.xoserve.UKLRelease3@xoserve.com

3.4.4. Communication

Type	Frequency	Method	Purpose
Report	Bi-Weekly	Email/Website	Overview summary of the progress on Market Trials
Participant Call	Daily	T-Con	Enable users to discuss any topics arising from the previous day, as well as any planned remedies to existing issues.
Website Updates	As Applicable	Website	Market Trials environment is unavailable will be published on Xoserve.com.
Meeting	Weekly	Webex	To discuss and agree MT queries, talk through plan progress and defect management as necessary

4. Entry/Exit Criteria

The following section provides the criteria for Entry and Exit to customer testing.

R3 ESA.xlsx

4.1. Entry Criteria

- Successful completion of all Xoserve Acceptance Testing
- No material defects from previous test cycles
- Registration by interested parties to participate in MT
- Environments fully prepared and signed off
- Acceptance Tested Code Deploment into MT environment
- Primary and Secondary contact details for all Customers participating
- Customer Data is issued to customers within timescales

4.2. Exit Criteria

- Customer approval from changes they have tested
- No material defects open
- Approval of Exit report and publish to industry
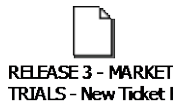
5. Defect and Query Management

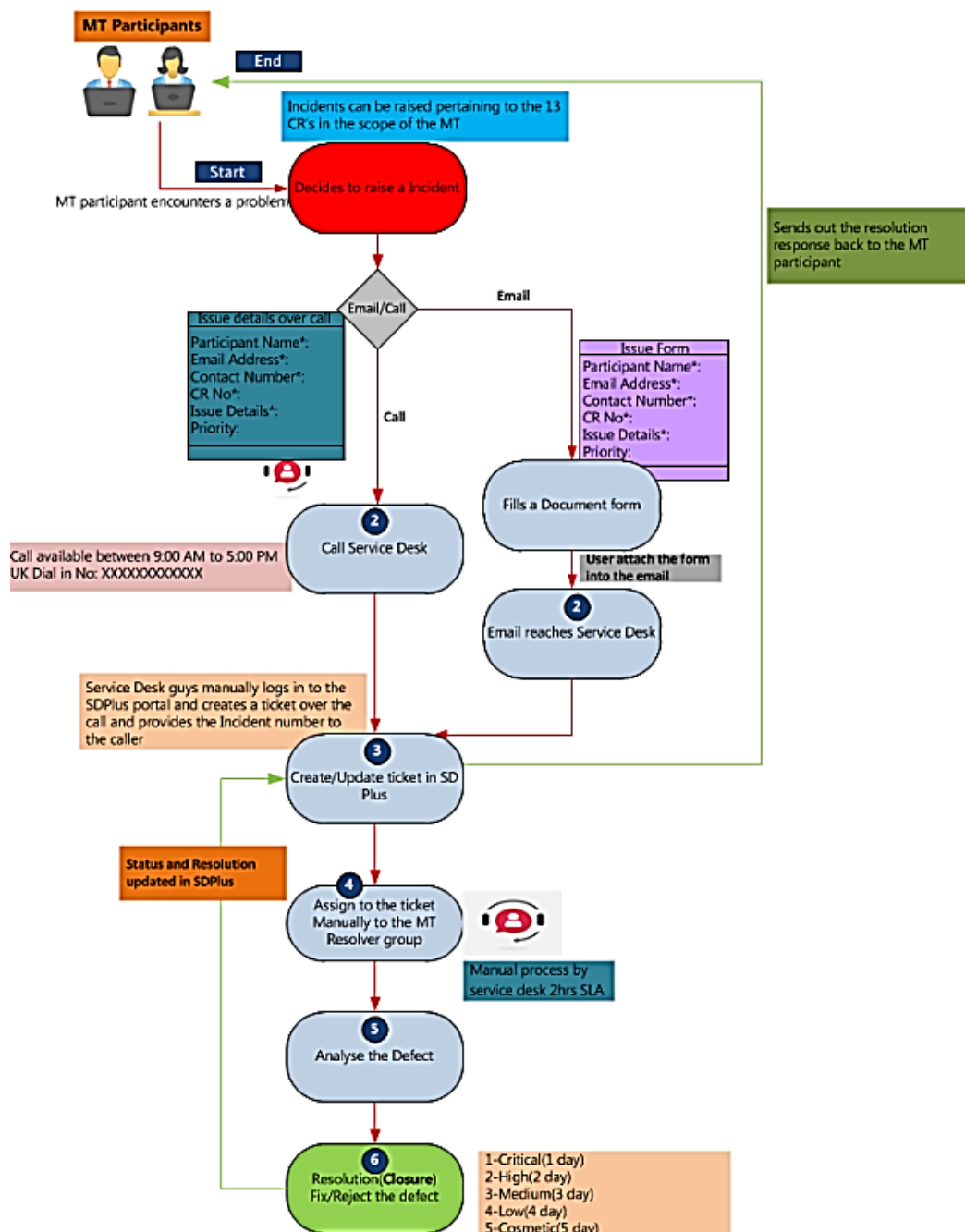The high level process for Defect Management is outlined below

- Defects should be reported to the Xoserve Service Desk via telephone (0845 600 0506). This is the same number as used for production incidents, therefore, it is important that callers clearly state the call is in connection to R3 Market Trials.
- The Service Desk is open 24 hours a day. However, R3 Market Trials support will be 9.00am to 5.00pm, Monday to Friday (UK time). 0845 600 0506 / +44 (0)121 623 2858
- All calls will be initially logged at the Service Desk as a P3, however, this is not necessarily the category it will retain. All queries/defects will be amended as required by the Market Trials Business Triage team.
- In order to assist in resolution of the defect, supporting evidence for each defect will need to be provided. This may include:
    - Replication steps
    - Screenshots
    - Copy of the file
    - Test data
- Defects will be analysed and prioritised based on industry impacts via a triage call.
- Standard code management procedures will be utilised to apply the fixes and carry out functional testing before deploying the same into MT environment

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- Defects impacting common code elements will be clubbed and deployed as release within MT system
- One day prior notice to industry will be provided where defect impacts industry systems as well
- Daily Triage management
- Email template to be used when sending in tickets for defects below.

RELEASE 3 - MARKET
TRIALS - New Ticket I

Defect Management Process

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5.1.   Impact Level of the Defects

Severity	Description	Resolution Time
P2 - High	A failure preventing testing or usage of a significant part of the system or for which no workaround exists. Example: (a) Web/portal accessibility is entirely affected and there is no workaround for that process via files. (b) Transfer of ownership process is affected due to a code/data issue and there is no workaround via File or web.	2 business days
P3 - Medium	A failure affecting crucial system functions but for which a workaround exists, enabling testing and usage of the system to continue. Example: File process activity for read upload is impacted via file process, but there is a workaround with Web portals.	3 business days
P4 - Low / Cosmetic	A failure, which does not seriously impact functionality and testing/usage of the system can continue; or an error that causes annoyance or a documentation problem with little impact on testing or usage of the system. Example (Low): Failure of a particular batch process which is not impacting the execution of other files related to that process and any queries received from shippers on the data/functionality issues in Market Trials phase. Also new user access creation/reset. Example (Cosmetic): Query received from Stakeholders on documentation.	4 business days

5.2.   Query Management

Queries will be managed through Release 3 .box account. Template below to submit queries is below.

RELEASE 3 - MARKET TRIALS - QUERY.oft

Confirmation on receipt of query will be sent out to the requestor, a response will be sent out within 5 working days of the query being raised.

5.3.   Release Management

It is acknowledged that as all parties progress through testing changes may be identified by industry stakeholders and Xoserve. All parties will prefer that change to R3 scope is kept to a minimum (and this is backed by good programme practice), but in some instances this will be inevitable. As a result, the proposal is that:

- Changes are only notified where without a change the solution will not function – i.e. 'Must Have' change.
- Following the identification and subsequent approval of changes , the Release Management model and DSC governance is followed
- With the acceptance of changes, agreement will need to be reached on delivery of these changes

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6. Appendix

Existing Change Proposal Number	Change Request Title	Service Areas Impacted*				Industry impacts & ~Xoserve Recommendation
		Shipper Users	Transporters			
			National Grid NTS	Distribution		
				DN Operators	Independent Gas Transporters	
XRN4337	To change the optionality of the Supply Point confirmation reference for the T51 file	Yes	No	No	No	MT - Yes No Industry wide impact if some parties are not ready we recommend a 'Go' for MT
XRN4495	Energy Tolerance Rejection code	Yes	No	Yes*	No	MT - Yes No Industry wide impact if some parties are not ready we recommend a 'Go' for MT
XRN4539	New File Level Rejection	Yes	Yes	Yes	Yes	MT - Yes No Industry wide impact if some parties are not ready we recommend a 'Go' for MT
XRN4443	File Format Changes Aug 16 Unique Sites (deferred items from CR252)	Yes	No	No	No	MT - Yes No Industry wide impact if some parties are not ready we recommend a 'Go' for MT
XRN4458	Class 4 CSEPS Reconciliation Variance Identification	Yes	No	No	Yes*	MT - Yes No Industry wide impact if some parties are not ready we recommend a 'Go' for MT
XRN4486	Meter Type O = Oriffice to be an acceptable value in file formats and reports	Yes	No	Yes**	Yes**	MT - Yes ; very few Meter type "O" No Industry wide impact if some parties are not ready we recommend a 'Go' for MT
XRN4538	Insertion of Maximum Number of Occurrences in Meter Inspection Date Notice (MID) File.	Yes	No	No	No	MT - Yes No Industry wide impact if some parties are not ready we recommend a 'Go' for MT

- Suggested – for industry review
- ** Recipients only, for industry participant review on whether they would like to participate or not for these CRs

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Existing Change Proposal Number	Change Request Title	Service Areas Impacted*				Industry impacts & ~Xoserve Recommendation
		Shipper Users	Transporters			
			National Grid NTS	Distribution		
				DN Operators	Independent Gas Transporters	
XRN4534	Amendment to RGMA Validation Rules for Meter Asset Installation Date	Yes	No	Yes*	Yes*	MT - Yes No Industry wide impact if some parties are not ready we recommend a 'Go' for MT iGTs and GTs are recipients only for Portfolio files if they wish to
XRN4273	Introducing IHD (In-Home Display)	Yes	No*	Yes	Yes	MT - Yes - parties need to create IHD statuses within their system; Goes out in portfolio files to some parties (DNs/IGTs recipients only)
XRN3656	Read Validation Tolerances	Yes	No	No	No	MT - Yes No Industry wide impact if some parties are not ready we recommend a 'Go' for MT
XRN4453	File Format Should Have Changes	Yes	Yes*	Yes*	Yes	MT - Yes No Industry wide impact if some parties are not ready we recommend a 'Go' for MT
XRN4431	Reads failing market breaker tolerance to be accepted for correct date following AQ Correction	Yes	No	No	No	MT - Yes No Industry wide impact if some parties are not ready we recommend a 'Go' for MT
XRN4481	Resolution of penny mismatches within invoice supporting information for Core invoices.	Yes**	No	Yes**	Yes**	MT - Yes Recipients only Billing files will be shared for verification of penny mismatch Xoserve Internal change- no real external impact as Market parties are recipients only

- Suggested – for industry review
- ** Recipents only, for industry participant review on whether they would like to participate or not for these CRs

7. Document Control

7.1. Version History

Version	Status	Date	Author(s)	Summary of Changes
0.1	Draft	17th July	Tom Lineham	Initial Draft
0.2	Draft	30th July	Padmini Duvvuri	Initial Draft
0.3	Draft	15th August	Tara Ross	Final Draft
0.4	Draft	17th August	Padmini Duvvuri	Response to queries
0.5	In Review	17th August	Tara Ross	Included Documents
0.6	In Review	11th September	Tara Ross	Updated comments from RAP form
0.7	In Approval	12th September	Tara Ross	Sent for approval
1	Approved	14th September	Tara Ross	Approved

7.2. Reviewers

Name	Role	Organisation Unit
Chris Fears	IS Manager	Xoserve
Donna Morgan	IS Manager	Xoserve
Andrew Wilkes	IS Manager	Xoserve
Emma Smith	Customer Change Manager	Xoserve
Nikhil Jain	SAP Architect	Xoserve
Nikhil Kumar	Delivery Manager	Wipro
Alison Cross	Customer Change Specialist	Xoserve
Dean Johnson	Business Ops Manager	Xoserve
Padmini Duvvuri	Senior Project Manager	Xoserve

7.3. Management Approval

Name	Role	Organisation Unit
Linda Whitcroft/Emma Smith	Head of Service Delivery	Xoserve

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Name	Role	Organisation Unit
Tab Ejaz	R& N Platform Director	Xoserve
Rahul Arya	Account Delivery Head	Wipro