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UK Link Industry Engagement Forum

19th December 2014

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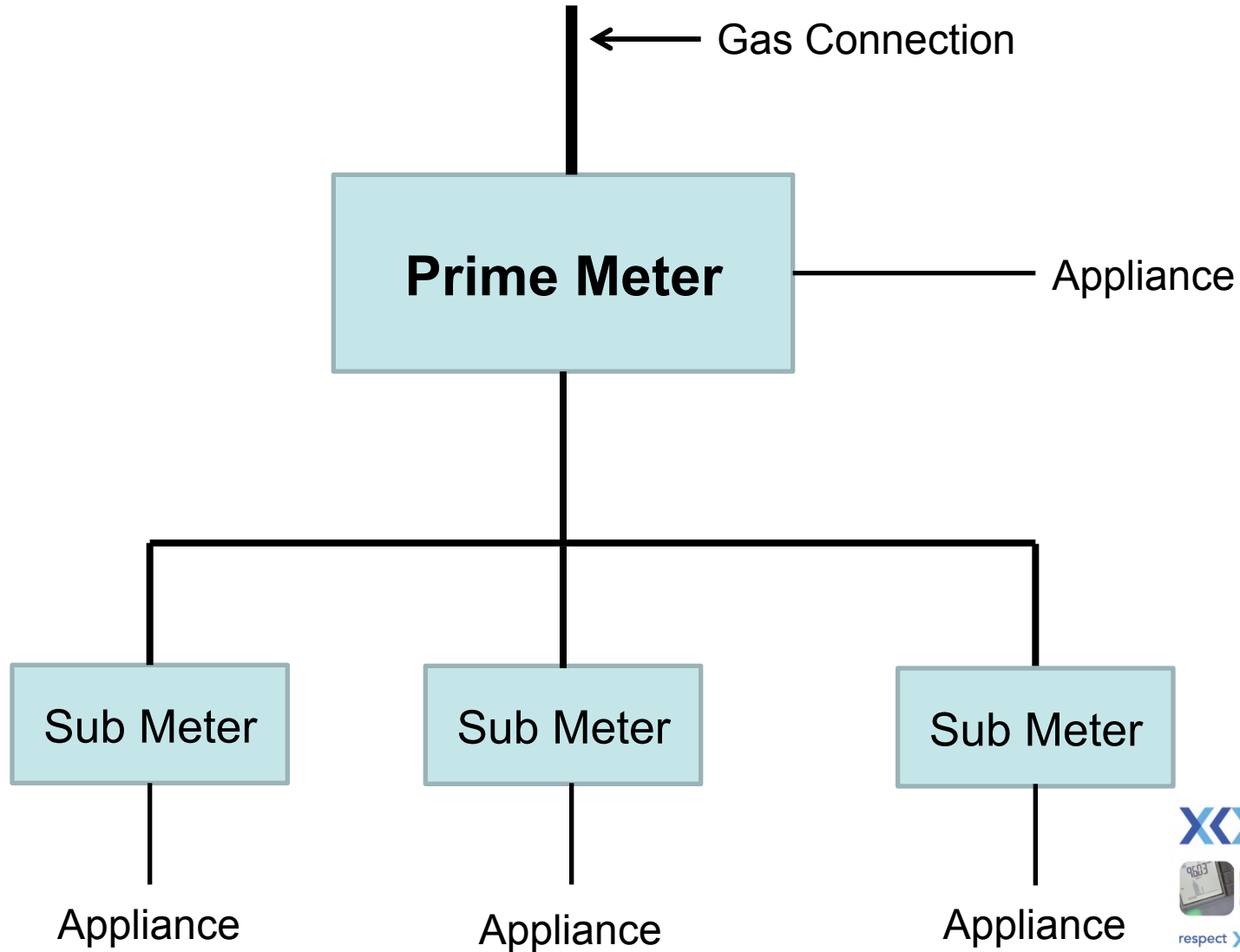
Primes and Sub Meters

Michele Downes

Background

- A Prime and Sub configuration is where secondary meters are fed gas from a main meter
- There can be one or more Sub meters but only one Prime meter
- The Prime meter consumption is the net consumption by deducting the Sub meter(s) consumption
- Prime meter points treated the same as any other Meter Point except for Allocation and Reconciliation processes
 - Sub meters are treated the same only difference is the consumption is used to net off the prime meter

Example of a Prime and Sub Configuration



Principles

- Shippers can elect a Prime or Sub Supply Meter Point into Class 2, 3 or 4.
- Unless a Meter Point meets the DM Mandatory criteria there are no constraints on which Class the Prime or Sub can be processed under.
- Meter Points in a Prime and Sub configuration do not have to be in the same Class
- The Shipper will have the obligation to submit validated reads according to the Class
- For DM Mandatory (Class 1) Prime or Subs the DMSP will continue to obtain and submit the reads
- Meter reads will be validated as per the read validation rules
- Asset updates will be submitted via RGMA flows
- Configuration changes submitted via CMS

Principles cont.

- For Supply Meter Points in Class 2, 3 or 4;
 - Shippers will need to obtain Check Reads where derivable read equipment is fitted e.g. AMR
 - Must Reads will be applicable
 - Shippers will be responsible for submitting the Opening read on transfer of ownership
 - Meter Inspections remain the responsibility of the Supplier
- The DMSP will continue to carry out Check Reads for Class 1
- All Prime and Sub Supply Meter Points in Class 4, in the same configuration, must have the same Meter Read Frequency

Principles Cont.

- AQ will be calculated as normal for the Sub Meter Points
 - Where a valid read is received the AQ will be considered for the AQ process
- The AQ for the Prime Meter Point will be calculated based on the netted off value (less the energy from the Sub meter points)

Allocation Processes

- Gas Allocations
 - For a Prime in Class 1 or 2 the daily energy from the Subs will be deducted for allocation purposes
 - Where the Subs are in Class 1 or 2 this will be the daily energy
 - Where the Subs are in Class 3 or 4 this will be the energy derived from the demand estimation methodology
 - For a Prime in Class 3 or 4 the daily energy will be calculated based on the AQ and using the Demand Estimation methodology

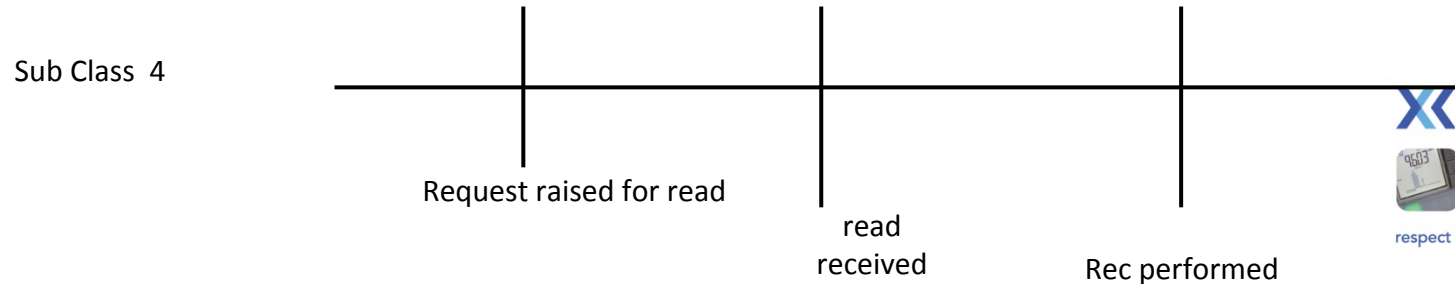
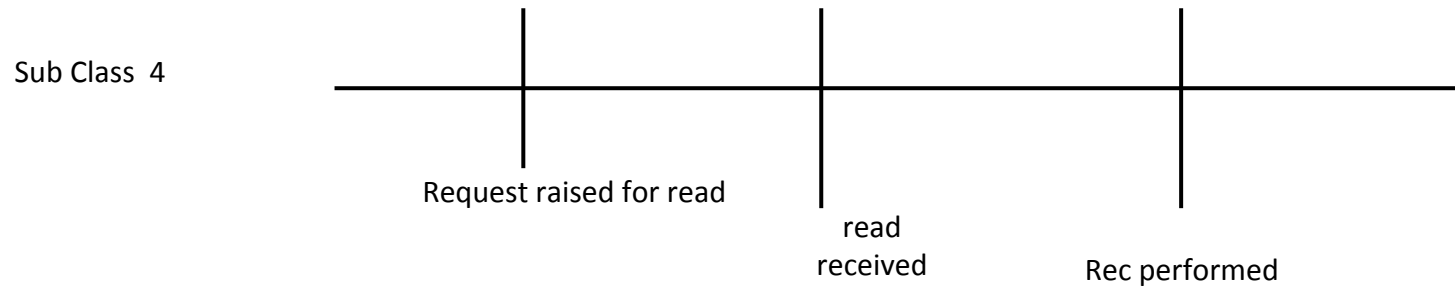
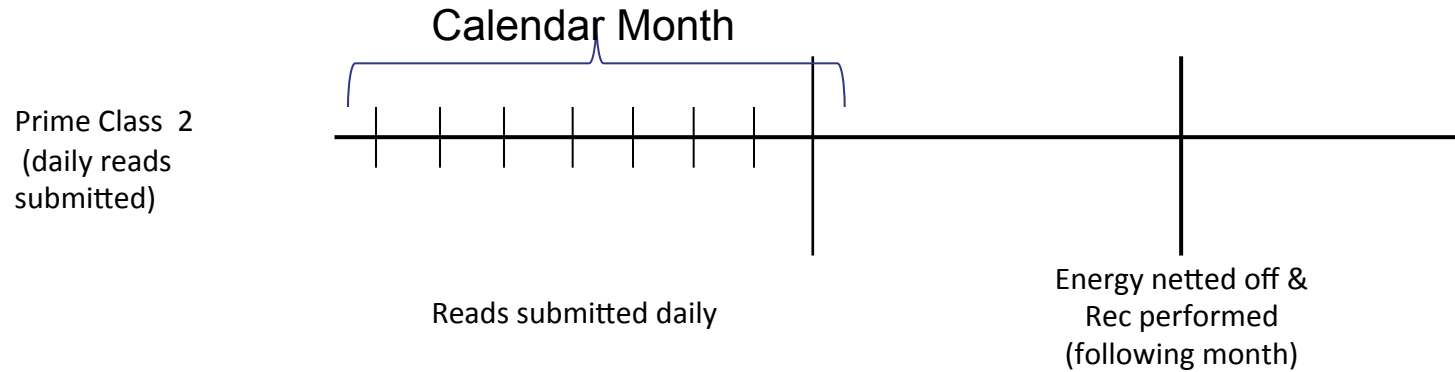
Reconciliation

- As daily reads will be available for Classes 1, 2 and 3 a read will only be requested for reconciliation purposes for a Prime or Sub in Class 4
- The GT will request a read based on the Meter Read Frequency
- When a read is obtained for all the meter points within a 5 day window (co-terminus read) reconciliation will be performed
- Where derivable equipment is fitted on more than one of the meter points in a Prime or Sub configuration, co-terminus Check Reads will be required and an actual read where derivable equipment is not fitted

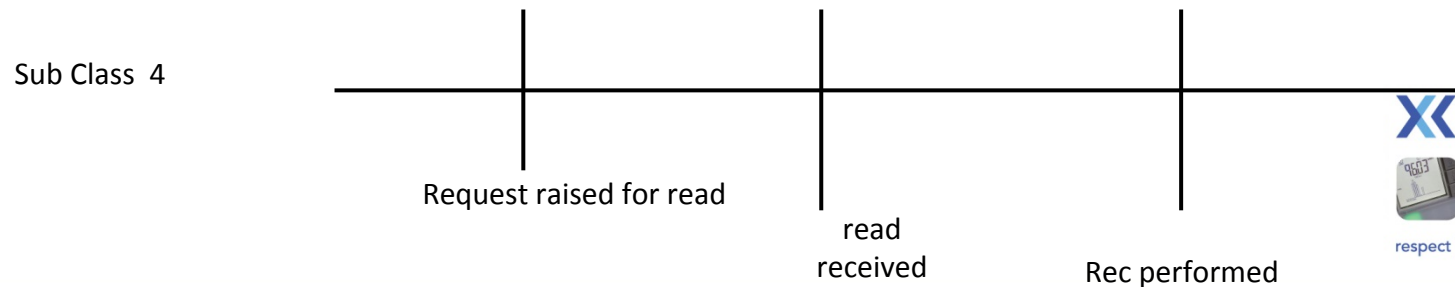
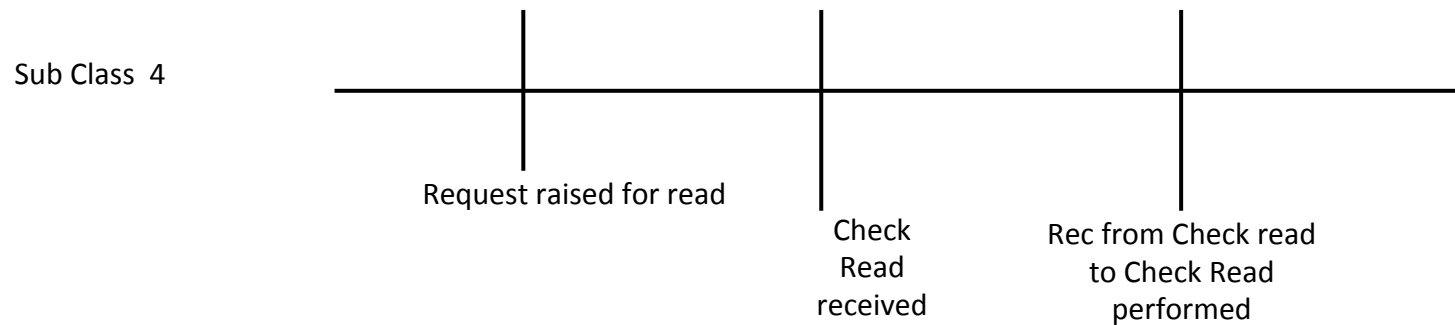
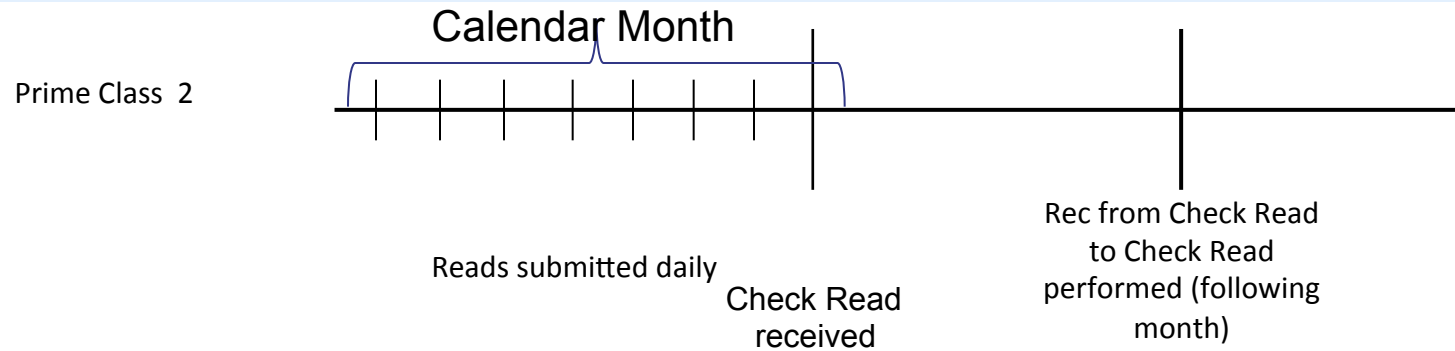
Reconciliation cont.

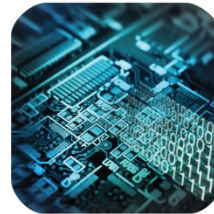
- Primary Meter Reconciliation
 - Prime reconciliation requires that all meters within a Prime and Sub configuration have readings taken within the 5 day window, these are called Co-terminus Readings
 - Where co-terminus reads are received, the Subs is reconciled and the reconciliation variance netted off the Prime to produce the Prime net variance
 - Where co-terminus reads are not received, reconciliation will not be processed
- Sub reconciliation:
 - For reconciliation purposes, the Sub meter is treated as Freestanding and reconciliation is processed every time a read is received.

Reconciliation Example (without derived read equipment)



Reconciliation Example where a Check Read is Received





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Unique Sites End to End Process Walkthrough

Emma Smith

19th December

An information only
call out.

Unique Sites
Process.

A BRD reference.

 File Changes – No
change

 File Changes -
Minor

 File Changes -
Medium

 File Changes –
Major

 File Changes - New

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Walkthrough Overview

As part of Unique Sites Walkthrough, these are the Unique Site types that will be covered as part of this presentation.

- Shared Supply Meter Points
- NTS Telemetered
- LDZ Telemetered
- Interconnectors
- NTS and LDZ shorthaul

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MPRN Creation

- Differences in MPRN creation
 - NTS – manual process
- Supply Point Enquiry
 - NTS Phone – data centre

NB: Shared Enquiry MPRN Not confirmation status as shared
Enquiries against shared supply meter points can be made as enquiring against meter point
(will not inform currently shared)

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Shipper

Enquire against all registered Supply Points via the enquiry file (S47).
(NTS sites are not included)

NMR
S78,S68,S72

NMR
S59,S70,S75,S98
Q44 & Q51

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NOM S47,S68

Response via (S59):

Response will include:

A maximum 24 months worth of history or the maximum available for the Supply Point. Volume will be provided in kWh

AMR Indicator

Class (prevailing)

Batch Frequency (class 3)

SMP and Formula Year AQ

SOQ for Class 3 & 4

DNI Indicator

Withdrawal Status

Seasonal Indicator

CYM

New feature within the existing enquiry file (S47) to submit a 'consumption request'.
(NTS sites are not included)

2.6.1 Respond to Contract Enquiry Request

Supply Point Register BRD Ref: 8.4

Contract Enquiry Request

Contract Enquiry Request Received

Rejection Notice

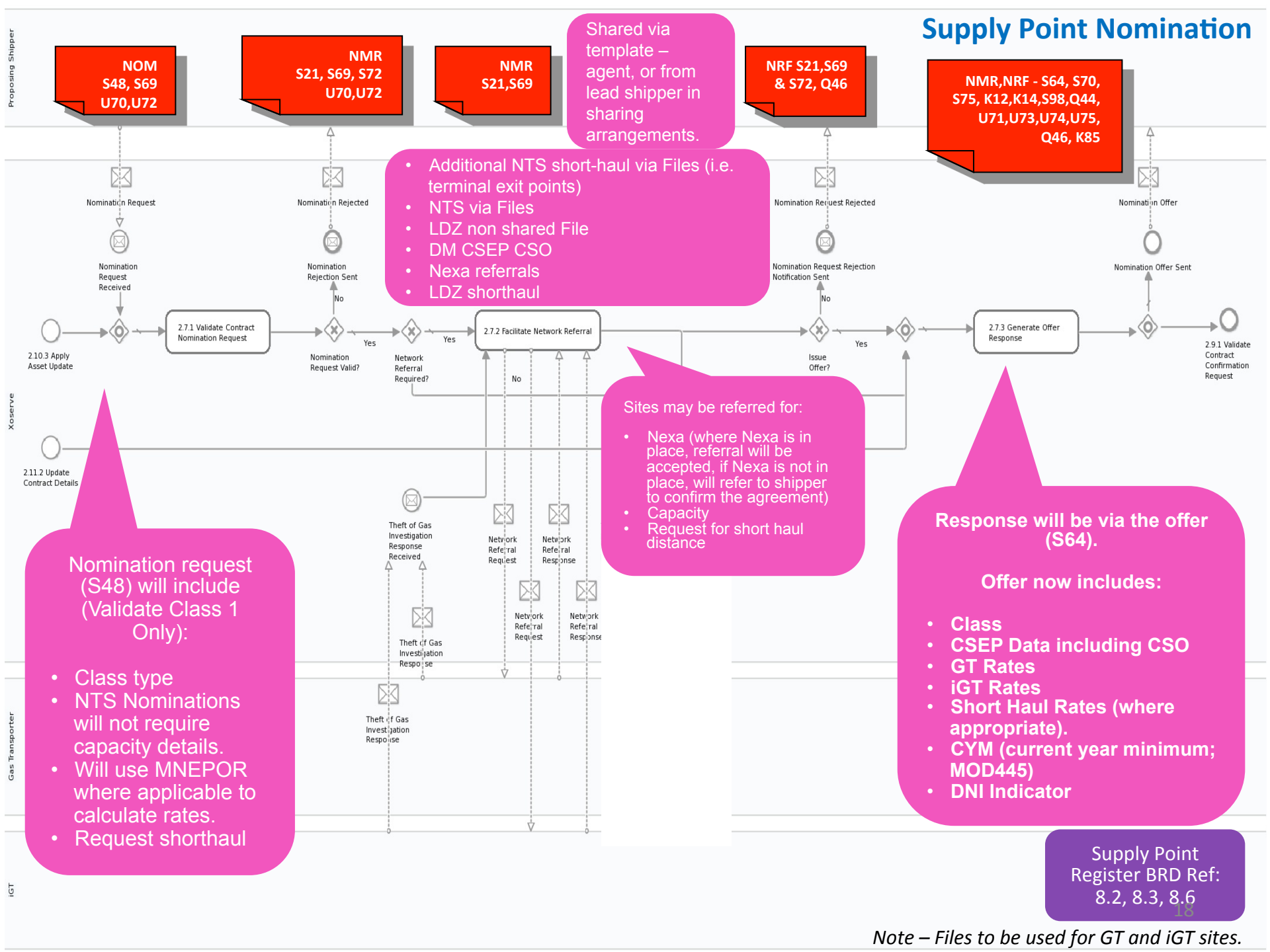
Rejection Notification Sent

Is Contract Enquiry Request Valid?

Contract Information

Contract Information Sent

Supply Point Nomination



Shared via template – agent, or from lead shipper in sharing arrangements.

- Additional NTS short-haul via Files (i.e. terminal exit points)
- NTS via Files
- LDZ non shared File
- DM CSEP CSO
- Nexa referrals
- LDZ shorthaul

- Sites may be referred for:
- Nexa (where Nexa is in place, referral will be accepted, if Nexa is not in place, will refer to shipper to confirm the agreement)
 - Capacity
 - Request for short haul distance

- Response will be via the offer (S64).
- Offer now includes:
- Class
 - CSEP Data including CSO
 - GT Rates
 - iGT Rates
 - Short Haul Rates (where appropriate).
 - CYM (current year minimum; MOD445)
 - DNI Indicator

- Nomination request (S48) will include (Validate Class 1 Only):
- Class type
 - NTS Nominations will not require capacity details.
 - Will use MNEPOR where applicable to calculate rates.
 - Request shorthaul

Supply Point Register BRD Ref: 8.2, 8.3, 8.6

Note – Files to be used for GT and iGT sites.

Supply Point Confirmation

CNF – S38, S42, S66, S67, S83, S84, U70, U72, T05

CFR – S72, S09, S16, S66, S67, S8 3, S84, U70, U72 ,T06

CFR – S07, S70, S75, S66, S67 ,S83, S84, S98, K12, K1 4, K85, Q44, Q45, U71, U73, U 74, U75, S10, S77, T06, T0 7

WAO – S39, S40, S7 4, S41, S54, S 73

WOR – S11, S12, S26, S13, S14, S30, S65, S72

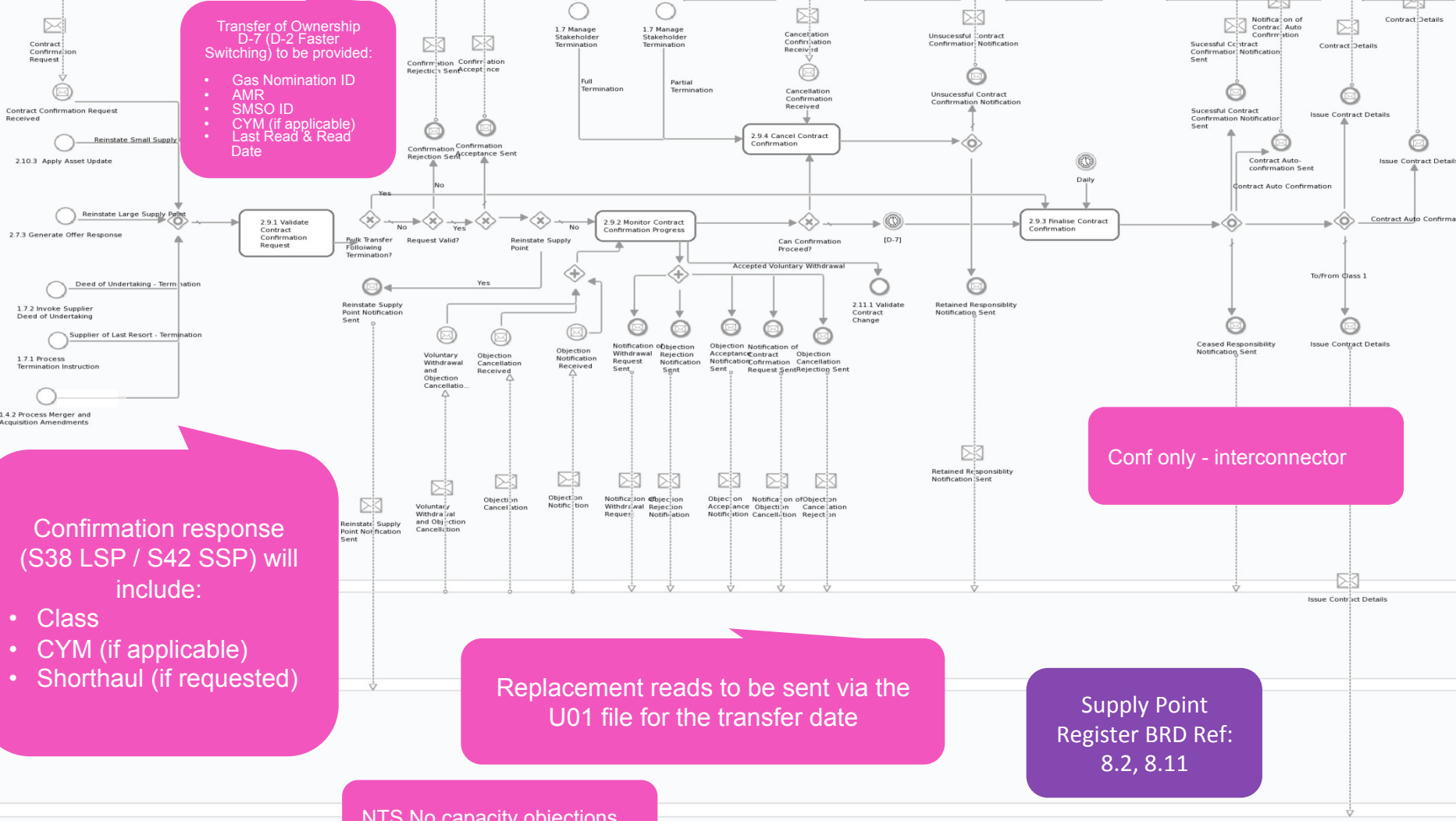
DCF – S08, S70, S76, S63, S72

TRF – S15, S70, S75, S66, S67, S76, S98, Q44, Q45, U71, U 73, U74, U75, S88, S63, S08, S72, K12, K13, K85

MRI- U06, K15, S98, N90

Transfer of Ownership D-7 (D-2 Faster Switching) to be provided:

- Gas Nomination ID
- AMR
- SMSO ID
- CYM (if applicable)
- Last Read & Read Date



Confirmation response (S38 LSP / S42 SSP) will include:

- Class
- CYM (if applicable)
- Shorthaul (if requested)

Replacement reads to be sent via the U01 file for the transfer date

Supply Point Register BRD Ref: 8.2, 8.11

NTS No capacity objections same timelines

Conf only - interconnector

Nominations, Confirmations and Rec Process

- Multiple users confirmed to a single supply meter point
- Submit pre-agreed templates to nominate & confirm
- All transfer of ownership files will be sent email templates. Will include offer, confirmation acceptance/rejection, objections, transfer of ownership files.
- Agreed email addresses to be supplied.
- Confirmation cancelled by anyone of sharing use, will cancel for all.

Responses/offers emailed on templates to all parties in the shared arrangements.

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Shared Supply Meter Points

- Shared - Flagged as special metering
- Shared – Voluntary withdrawal will be accepted but will not be effective until a new confirmation is effective
- Shared template can be submitted by an agent or one of the users in the sharing arrangement, notification will be sent to all users.
- Agreement on the withdrawal process (Shared only).
 - Will not effect until new confirmation is submittedOr
 - Asset removed & isolated
- Asset updates: special metering – trigger file to all users. On receipt of an asset update the update will be included in the MRI and PAC files to each of the sharing users.

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File Submissions

- Shared \implies Non Shared (Non Shared Notification Online)
- Non Shared \implies Shared (via template (No sharing Files)
- Shared \implies Shared (All templates)
- SPC – Add/Remove Shorthaul for NTS sites, existing Shared Supply or LDZ telemetered Sites
- Nominations & Confirmations- Add/Remove Shorthaul for LDZ Sites which are not telemetered or shared.

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Interconnectors

- Confirmations only registering against notional MPRN
- Confirmation acceptance provided on template
- Different template to shared response template

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Supply Point Amendments

- Shared
- Non-Shared

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Executive summary

- RAG status for the Programme remains at 'amber'.
- The File Format consultation process targets all approvals at UKLC on 11/12, slipped from 24/11.
- Walkthroughs have continued to be held with Shippers, focussing on reps received through the consultation period. These sessions have been very well attended and have proved to be productive. Network walkthrough scheduled for 11/12.
- Design for core SAP application complete as of 30/11. Outstanding architecture considerations include IX, Control M, EFT and browser compatibility for the Portal.
- Build & System Testing continue. System Testing progress has been slower than expected. Mitigating options are being analysed.

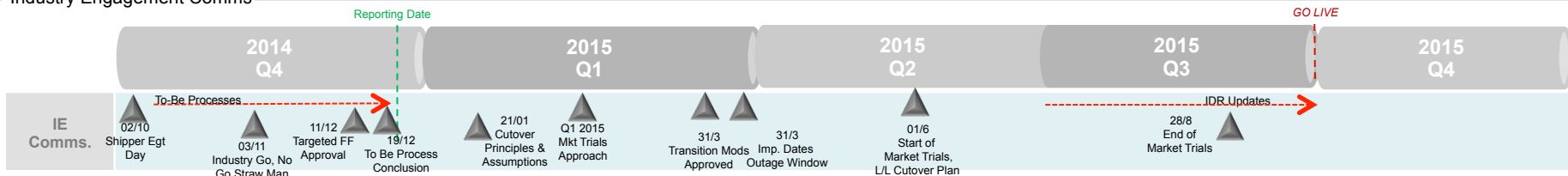
Recent Achievements

- All Shipper file formats have been published to the Industry in line with the plan agreed at UKLC.
- 3x Shipper reps walkthroughs held to help facilitate the File Format Consultation process.
- November's UKLIEF session extremely well attended; 6 To Be Processes were successfully walked through.
- Gemini Consequential Changes External Stakeholders Meeting held, positive feedback received.
- The Market Trials Working Group continues to meet with positive attendance from all 5 organisations involved.
- IGT Database implemented on the weekend of 05/12.
- SIT Commenced as per plan on 08/12.
- CT1 complete
- CT2 (Data Component Testing) commenced 8/12/ in preparedness for SIT2 05/01

Future Priorities

- Progress and close out the Shipper File Format consultation process through the UK Link Committee. Approvals are targeted for 11/12 (slipped from 24/11).
- Progress and close out the Non Shipper File Format consultation process through the CMSG and SSP. Approvals are targeted by 16/12).
- Complete the final To Be Process walkthroughs in December 2014 as per plan. Final presentations focus on Unique Sites and Prime & Subs.
- Feed outputs of Source to Target mapping which require industry attention into the Data Cleanse Forum (22/01).
- Continue to work through the Market Trials approach, scheduled for Industry communication at UKLIEF during Q1 2015.
- Progress through System Test with a planned completion date of the end of the year.

Industry Engagement Comms



Programme Milestones

Key Milestone	High Level Design Complete	Detailed Design Complete	Xoserve UAT Complete	Industry Testing Start	Cutover & Implementation
Baseline Date	18/04/14	29/08/14	28/05/15	01/06/15	01/10/15
Current Planned Date	Complete 30/04/14	Complete 30/11/14	29/06/15	01/06/15	01/10/2015

Aggregated Programme RAG

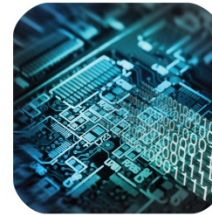
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Risks

Risk Summary	Impact Date	Mitigation
Data Cleanse: There is a risk that data cleanse activities will not complete in the required timescales, due to progress to date on settlement data cleanse activities and the unknown quantity of data cleanse required as outputs from Source to Target mapping and Data Migration testing.	Feb 2015	Data Cleansing Forum has increased its frequency to monthly. Xoserve to prioritise / categorise data outputs from Source to Target to ensure Industry can focus in the most effective areas.
File Formats: There is a risk that any changes to file formats as a result of the UKLC approval process (formal consultation and reps) may impact on the ability of the industry to deliver by Oct 2015 due to design re-work.	Dec 2014	Walkthroughs of the Shipper Reps have been conducted. The sessions have enabled Xoserve to explain responses to representations in detail and provide rationale for specific design decisions.
Market Testing: Risk that Market Trials is insufficient in length and too late within the programme, and participants may not be ready in time to take part.	June 2015	Market Trials and UAT hard link removed. The start of Market Connectivity Testing has been brought forward to 05/05/15. Registration process begins January to establish participation rates/intent.

Key Dependencies

Dependency	Date Required	Impact if missed	Status
Industry (Shipper and Non Shipper) agreement on file formats	Dec 2014	The programme will continue build and testing activities at risk.	A
All baseline and Transition mods required to be approved.	Mar 2015	It may impact the ability of UKLP going live or the Industry being required to go live without approval of the relevant modifications.	G
Industry Stakeholders to complete their internal system builds and System Test	May 2015	Industry may not be able to fully participate in the Market Trials phase.	G



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Data Workstream Update

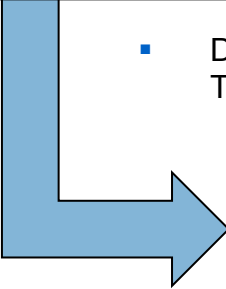
Padmini Duvvuri

Data Item Classification

- During the Source to Target (S2T) and the planned Migration Runs mapping Xoserve is defining the solutions required to migrate legacy data items to the new UKL system. Each legacy data item is being classified as per the table below
- Data Migration test cycles will validate the solutions identified and may lead to some data items being reclassified if an alternative migration solution is needed
- Consultation with industry will be required to agree some transformation rules and data cleanse requirements

Data Solution	Definition	Industry Engagement
Migrate	• Data items which directly migrate from source to target with no manipulation	N/A
Do Not Migrate	• Data items which are redundant and accordingly needn't be migrated	N/A
Transform	• Data items which will have transformation rules applied in order to move the data from source to target	Industry Discussion
Cleanse	• Data items which require industry cleanse intervention before migration	Industry Discussion + Industry Action

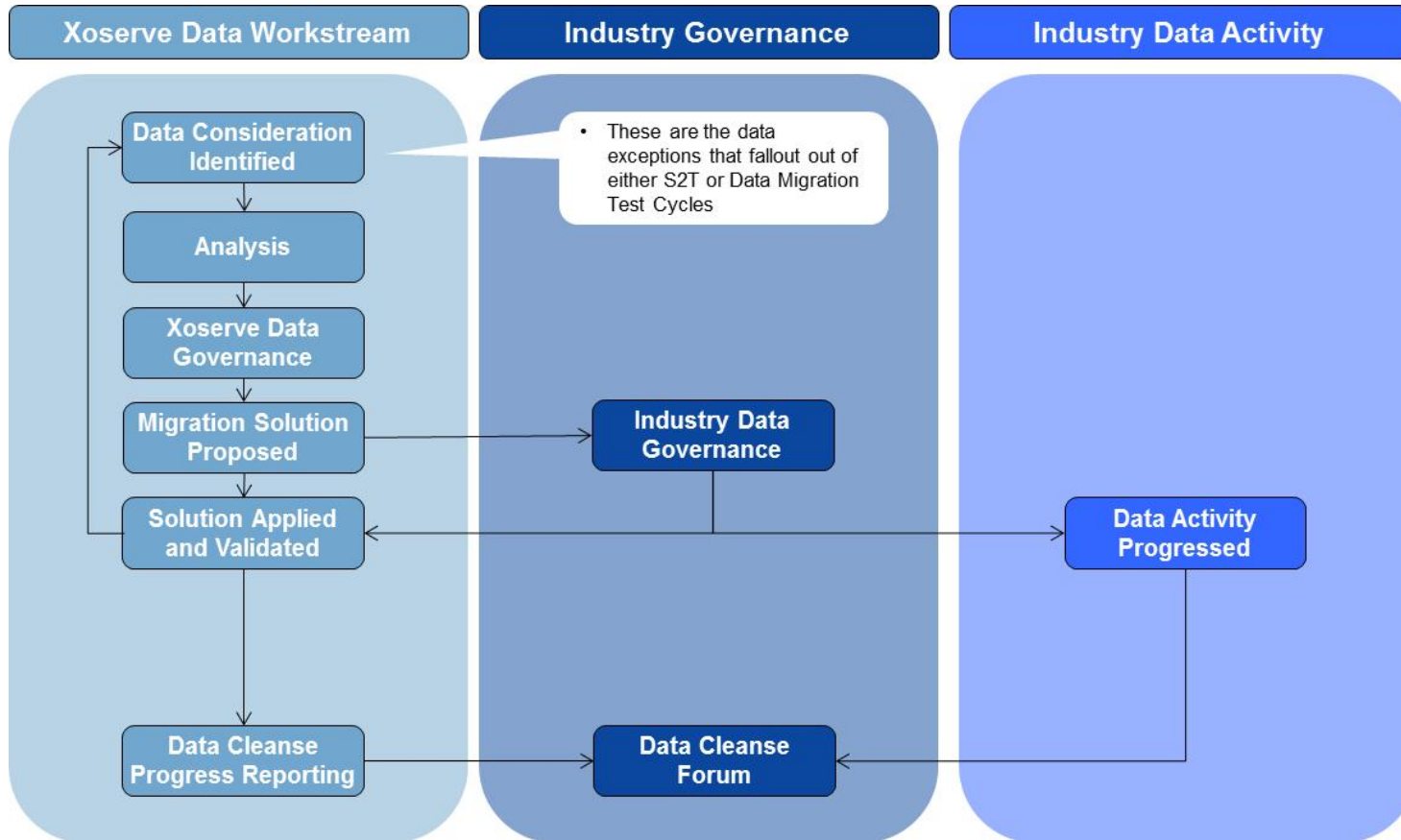
- Data cleanse items are to be assigned a prioritisation to ensure industry activity is focused in critical areas. The priority is driven by the implications if the item is not cleansed. The table below details this prioritisation



Category	Definition	Priority
Migration Blocker	• Data item cannot be migrated unless it's cleansed	1
Commercial	• Uncleansed data will adversely impact core processes and potentially have commercial implications for shippers	2
Data Quality	• Minor data quality issues which do not negatively impact downstream processes	3

Industry Engagement on Data

- The diagram below provides an overview of the interactions that are required between Xoserve and industry stakeholders in support of UKLP data activities



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Industry Engagement on Data

Xoserve Data Workstream

Industry Governance

Industry Data Activity

Data Consideration Identified

Analysis

Xoserve Data Governance

Migration Solution Proposed

Solution Applied and Validated

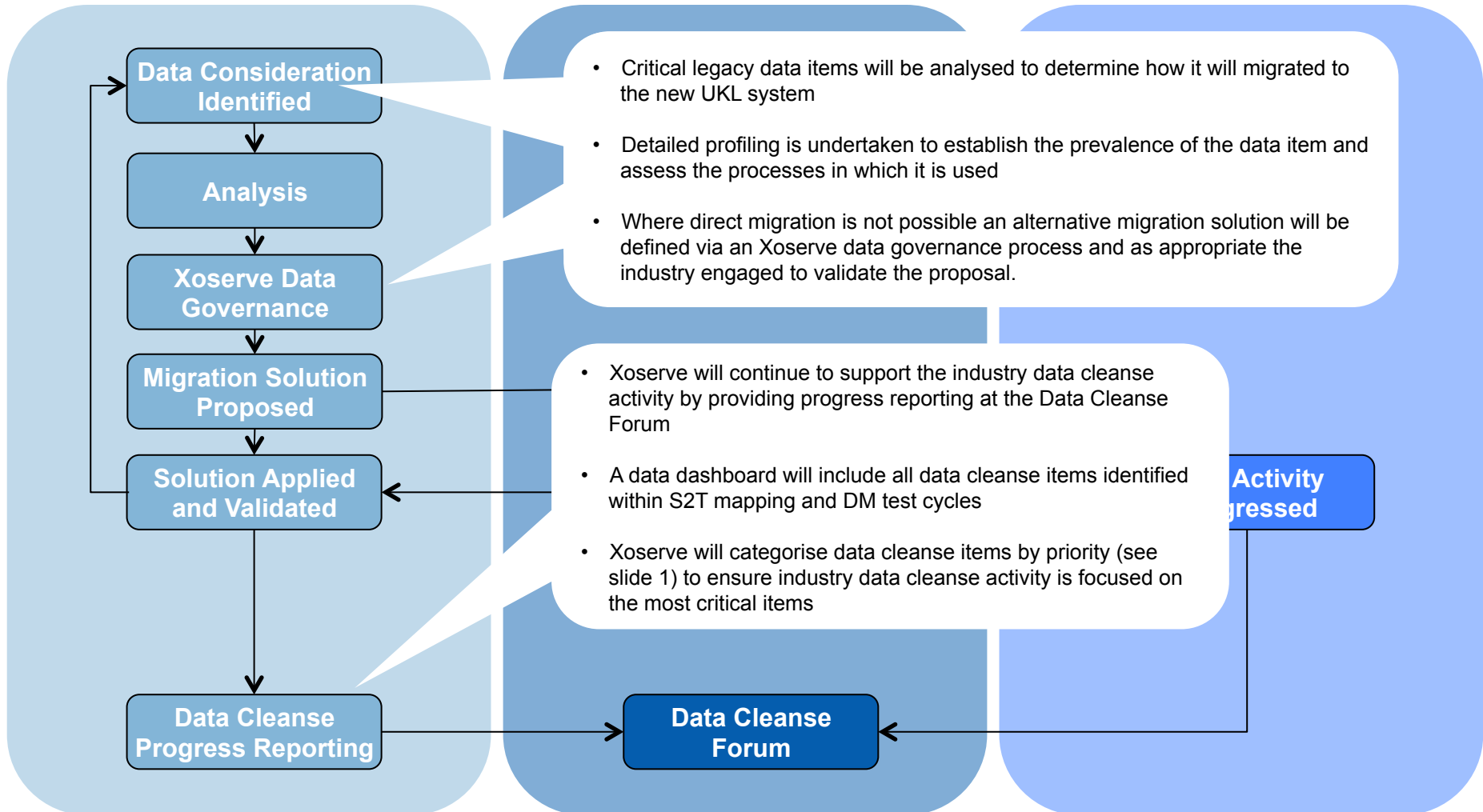
Data Cleanse Progress Reporting

- Critical legacy data items will be analysed to determine how it will migrated to the new UKL system
- Detailed profiling is undertaken to establish the prevalence of the data item and assess the processes in which it is used
- Where direct migration is not possible an alternative migration solution will be defined via an Xoserve data governance process and as appropriate the industry engaged to validate the proposal.

- Xoserve will continue to support the industry data cleanse activity by providing progress reporting at the Data Cleanse Forum
- A data dashboard will include all data cleanse items identified within S2T mapping and DM test cycles
- Xoserve will categorise data cleanse items by priority (see slide 1) to ensure industry data cleanse activity is focused on the most critical items

Activity progressed

Data Cleanse Forum



Industry Engagement on Data

Xoserve Data Workstream

Industry Governance

Industry Data Activity

Data Consideration Identified

Analysis

Xoserve Data Governance

- A decision on the right industry forum to manage industry data decisions is needed
- This role is not within the vires of an existing forum
- The need for the right forum has been discussed within the Change Overview Board and a resolution is being sought

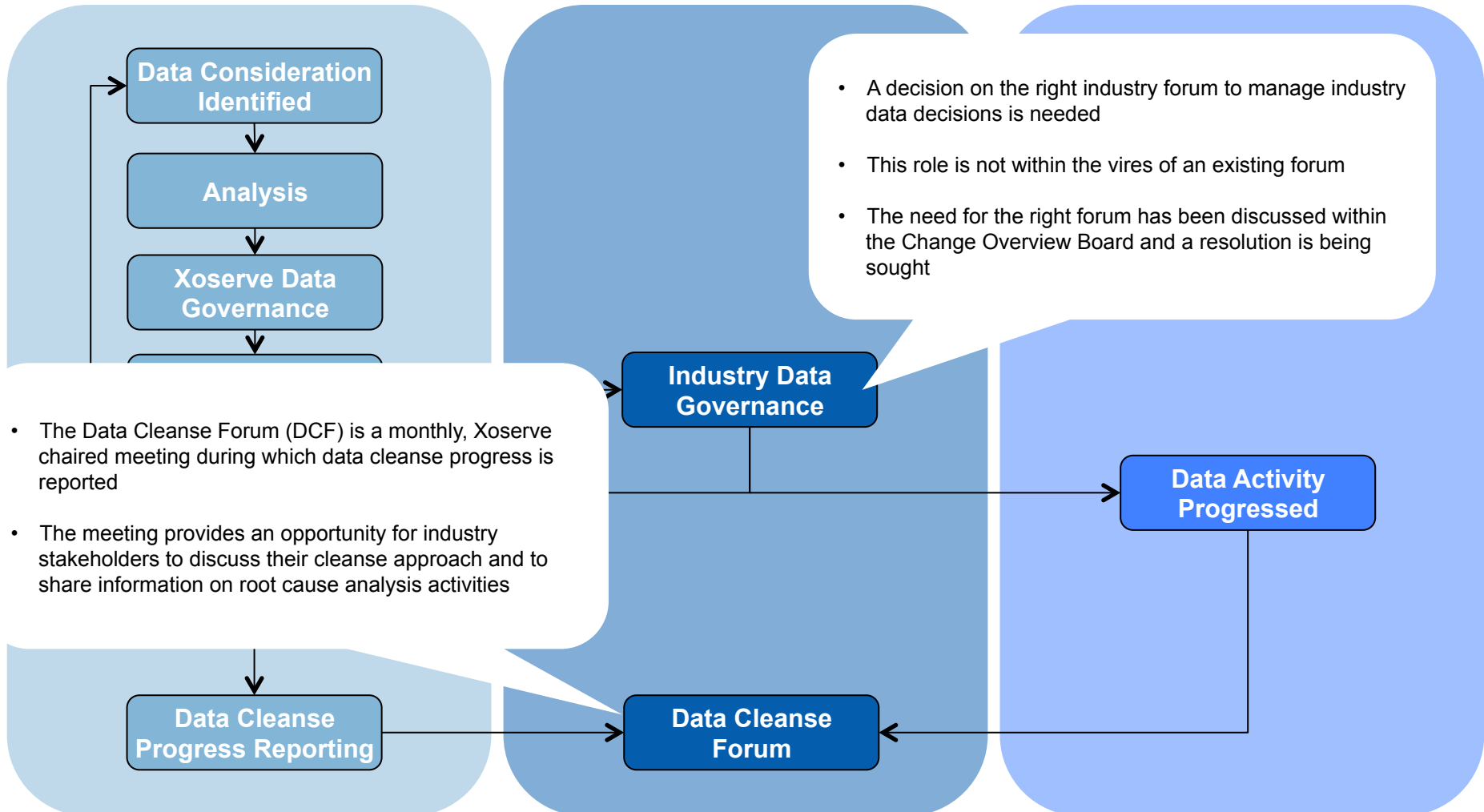
Industry Data Governance

- The Data Cleanse Forum (DCF) is a monthly, Xoserve chaired meeting during which data cleanse progress is reported
- The meeting provides an opportunity for industry stakeholders to discuss their cleanse approach and to share information on root cause analysis activities

Data Activity Progressed

Data Cleanse Progress Reporting

Data Cleanse Forum

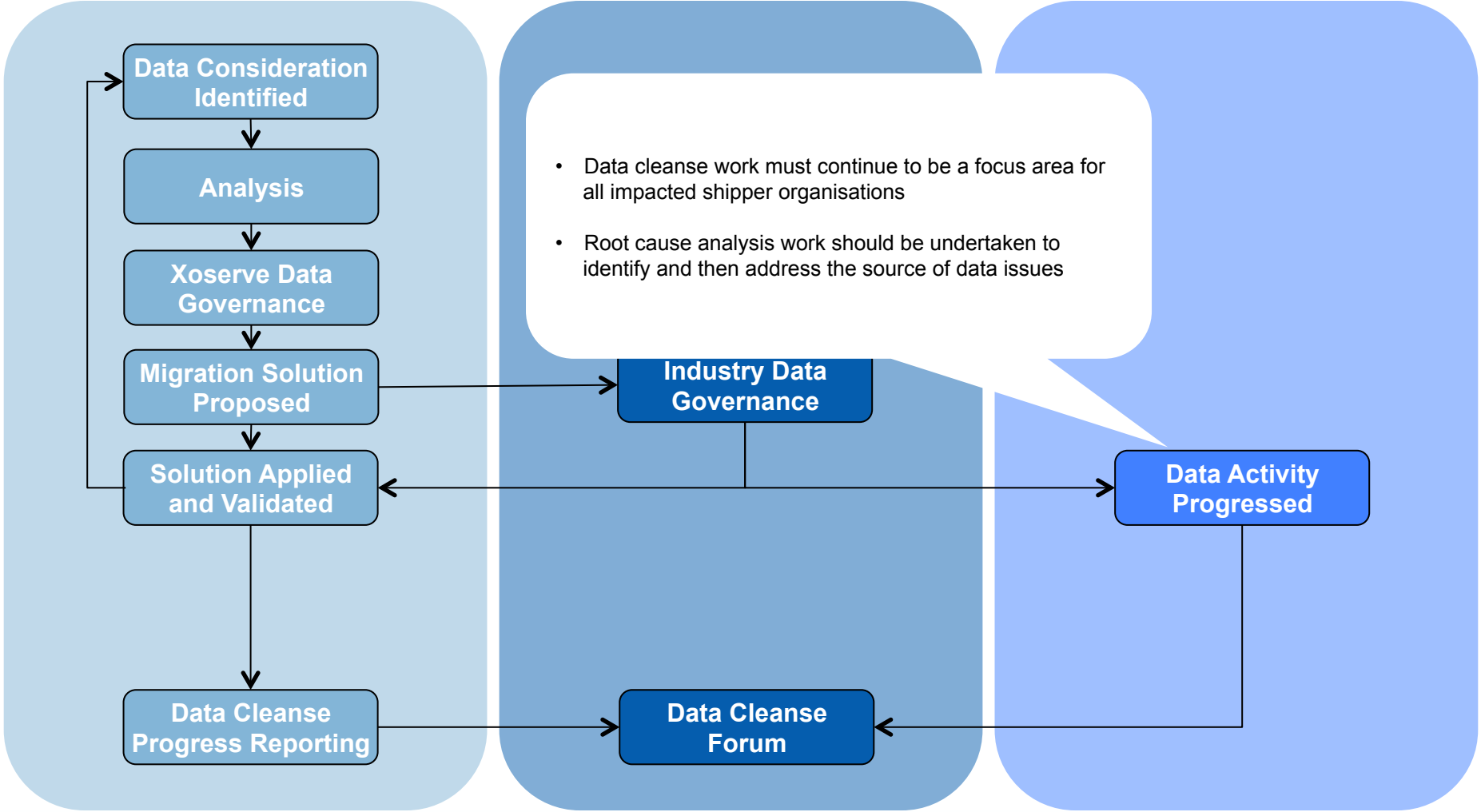


Industry Engagement on Data

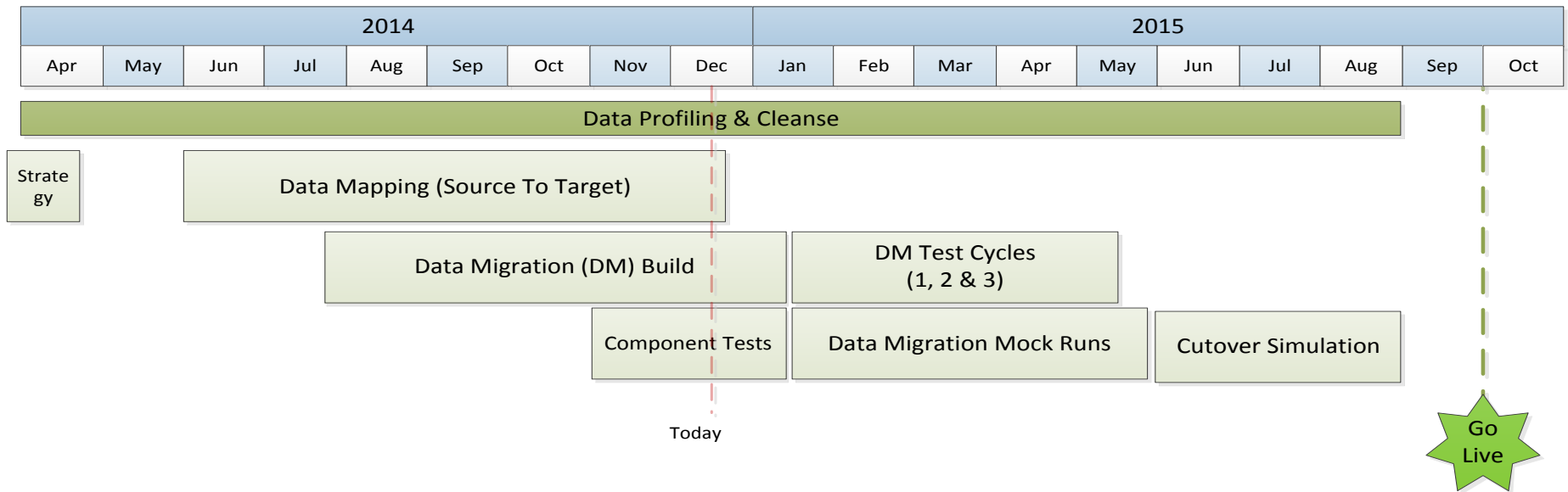
Xoserve Data Workstream

Industry Governance

Industry Data Activity



Data Workstream Plan and Update



1. The Data workstream has continued to make good progress on completing the S2T Mapping for UKLINK data and is also working on the non-UKLINK sources of Data.
2. The Component Testing (CT) Cycle 1 (CT1) has been successfully executed in November '14 largely to plan and committed timescales. The cycle was executed with 0.5m Live Meter Points and a good success rate for the initial test loads was observed.
3. The CT2 Cycle has started on plan on 08th of December 2014 and is expected to continue the volume testing of our data set into the new UKLINK solution. This is expected to give us greater clarity on Data Quality and any considerations that the Industry needs to be consulted on.

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Priority next steps

Xoserve Data Workstream

- Conclude S2T activities across all legacy data sources. S2T is currently ~ 85% complete
- Continue the Data Test cycles as per the plan and identify the relevant Data Considerations
- Analyse the data items for criticality and publish those which require industry discussion or action – details to be shared at [PNUNC] prior to the decision on the right industry forum for Data.
- Apply data cleanse prioritisation to the data dashboard presented at DCF

Industry Stakeholders

- Conclude data cleanse work associated with known 'settlement' data items.
- Expedite the decision for the right industry forum for data decisions
- Mobilise / sustain resource dedicated to UKLP data activity in readiness for outputs of S2T and DM test cycles



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Progress on Market Trials

Andy Earnshaw

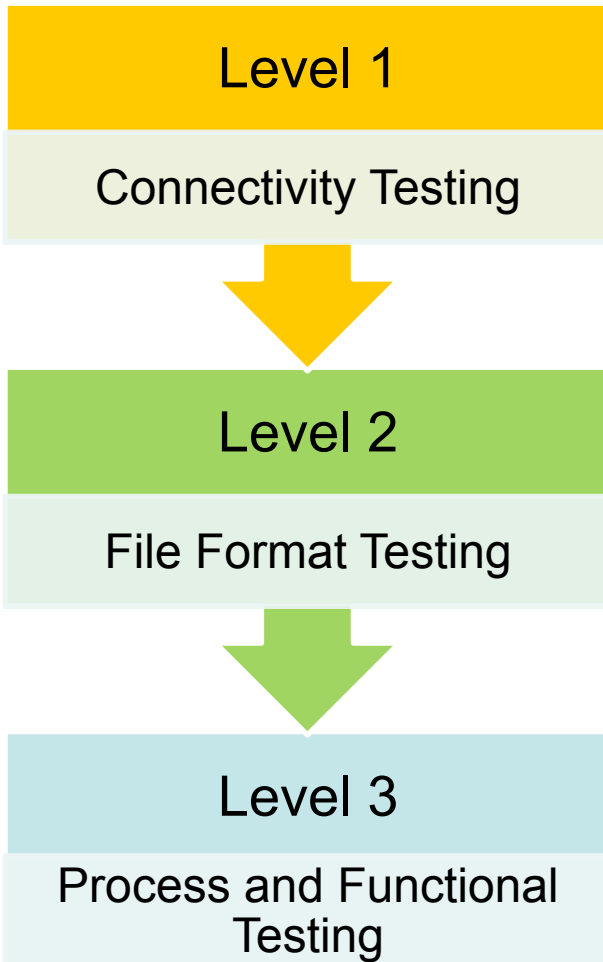
Market Trials Update

- Market Trials is planned to commence on June 1st 2015 and run for 3 months until 29th August 2015.
- The hard link between UAT and Market Trials has been removed to help support a strategy to conduct earlier-than-planned Market Trials. This allows Xoserve to offer testing on connectivity - this testing will commence in May 2015.
- A Market Trials Working Group has been established consisting of a number of Shipper Organisations. The Group acts as a sounding board for ideas and principles prior to the Approach being shared at UKLIEF during Q1 2015.
- Registration for participation in Market Trials will be opened in January 2015.
 - Seeks an indication from industry parties on:
 - *intention to participate;*
 - *level of testing that is being proposed (refer to slide 2 for more details);*
 - *key contact details within stakeholder (shipper/network) organisations.*



Market Trials Test Levels

3 levels of testing have been defined:



- **Level 1- Connectivity Testing**
 - Testing of connectivity between the servers between Shipper and Xoserve’s new environment.
 - Xoserve will monitor the files that are received and will confirm success (i.e. receipt) accordingly.
 - The period for this testing will be between May and August 2015.
- **Level 2- File Structure Test**
 - Positive and negative testing of file formats to ensure that the structure and formatting (i.e. alpha/numeric/field length) is correct.
 - The testing will enable shippers to receive ERR files (record level failure), FRJ (file level failure) and DEL (successful response).
 - The period for this testing is expected to be between May and August 2015.
- **Level 3 - Functional Testing**
 - Functional testing enabling Shippers to run scenarios that will test end to end business processes.
 - Xoserve are proposing to run the testing in real time for a period of 3 months such that processes run in accordance with current operational timings.
 - The period for this testing will be between June and August 2015.

Next Steps

- Registration Process commences January 2015.
- Market Trials Update at January's UKLIEF.
- Market Trials Approach on track for issue Q1 2015.



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UK Link Programme: Browser Compatibility

Aidan McLaughlin

19th December 2014



1. Background
2. Browser developer supported versions
3. Application supported versions
4. Portal compatibility matrix
5. What if we use a browser that isn't supported
6. Summary



Background

- With the implementation of the new UK Link suite of applications, Xoserve will be providing an enhanced user experience for all interactive, online transactions.
- These applications will be hosted in secure, ISO27001 compliant data centres and made available via a secure internet connection.
- In the design of the solution, Xoserve are following industry standard technologies and practices to help ensure that the impact of the new solution is minimised both at go-live and for future enhancements and services that may be requested.
- In defining a browser compatibility list, Xoserve are wholly dependent on the support provided by both the browser developers (Microsoft, Google etc.) and the application product vendors (Oracle, SAP).
- To this end, Xoserve will be providing support for the following internet browsers:
 - Microsoft Internet Explorer 9 (with limited support for IE7 and 8)
 - Google Chrome 10+
 - Mozilla Firefox 5+
 - Apple Safari 5.x



Browser developer supported versions

Product	Support Position	Version	Vendor Support	Xoserve Support
Microsoft Internet Explorer	From January 12, 2016, only the most current version of Internet Explorer available for a supported operating system will receive technical support and security updates.	IE11	Windows 7 Windows 8.1 Update	Yes
		IE10		Yes
		IE9	Windows Vista SP2	Yes
		IE8	Already out of support	Yes – limited period
		IE7	Already out of support	Yes – limited period
		IE6	Already out of support	No
Google Chrome	Google provides regular updates to Chrome, supporting the latest release	39+	Yes	Yes
		10 - 38	No	Yes
Apple Safari	The version supported depends on the Operating System.	6, 7, 8	Yes	Yes
		5	No	Yes
Mozilla Firefox	Mozilla provides regular updates to Firefox, supporting the latest release	31 +	Yes	Yes
		5+	No	Yes



Application supported versions

Product	Use Cases	Vendor supported browser
Oracle Webcenter 11.1.1.8	UKL Screens DES Screens	IE 11.x Firefox 5+ Safari 5.x Chrome 10+
Oracle Identity Manager 11gR2	LSO Screens to on-board new users.	IE 8, 9+ Firefox 5+ Safari 5.x Chrome 12+
SAP ISU GUI 7.3	Internal Business Users	IE6,7,8+ Firefox 3.5, 3.6 Safari 4,5
SAP BO 4.1	Internal Business Users - Reports	IE 8, 9,10,11, Firefox ESR 24.x Safari 7.x, Chrome



Portal compatibility matrix

Topic	IE7	IE8	IE9+	Vanilla experience	Xoserve Workaround
Template Layout	No	No	Yes	Layout Collapse due to HTML5 and CSS3	Additional CSS required for IE7/8 to override the existing properties
Main Menu	No	No	Yes	Bootstrap 3.2 is not compatible in certain browsers	Alternative menus will be created
Breadcrumb	No	No	Yes	Collapse due to CSS3	Alternative component to be used from ADF
Tree view	No	No	Yes	Certain CSS3 properties fail in lower browser versions	Alternative CSS property will be used
Display Container	No	No	Yes	Certain CSS3 properties fail in lower browser versions	Alternative CSS property will be used
JSF AJAX	No	No	Yes	FACET AJAX tag available on XHTML	Alternative applicable library version will be used



What if we use a browser that isn't supported?

In the event of any end users requiring access to the UK Link suite of applications that do not run a supported browser version, any of the following workarounds can be utilised:

#	Workaround	Implication
1	Install alternative browser	Multiple internet browsers can co-exist on one PC, with users able to run them concurrently
2	Upgrade browser version	1. Install later version of browser on existing PC, on an exception basis. 2. Chrome and Mozilla are able to auto update with no impact on users
3	Install updated browser on alternative PC	Have alternative PC's with local build which allows installation of later browser



In summary

- For new UK Link, core SAP and DES, via the WebCentre Portal we will support IE7 and above
- IE7 and 8 will be supported for a transition period only for SAP and DES, and Xoserve will come back to Industry to agree a roadmap
- CMS and Gemini technologies will remain supported on current versions and will follow the roadmap upgrade
- Further browser support is provided by:
 - Microsoft Internet Explorer 9 (with limited support for IE7 and 8)
 - Google Chrome 10+
 - Mozilla Firefox 5+
 - Apple Safari 5.x
- Shippers need to be compatible in time for Market Trials
- If you need assistance or have further queries contact your Xoserve Industry Engagement representative.