Unidentified Gas

Mod High Level Impact Assessment

29th January 2018

Background

- In light of recent industry discussions, three MODS have been raised and are outlined below:
  - MOD 642 - Changes to settlement regime to address Unidentified Gas issues
  - MOD 642a - Changes to settlement regime to address Unidentified Gas issues with current NDM allocation approach
  - MOD 643 - Changes to settlement regime to address Unidentified Gas issues including retrospective correction
- High level impact assessments have been undertaken to take account of the following:
  - UKLINK Impacts
  - Gemini Impacts
  - Testing & Regression Impacts
  - System Performance
  - Elapsed delivery timelines

Please note, as requirements are still evolving whilst undertaking this impact assessment, an element of risk margin has been applied to each of the options. Therefore, the costs associated with each of the options will be given in a high level range. Should any of these modifications be implemented, Xoserve will need to undertake a more detailed impact assessment to verify the costs and timescales.

Summary of Alternative Proposals

MOD 642: Changes to settlement regime to address Unidentified Gas issues

- Calculate daily UIG as a fixed percentage of throughput
- Follow top down approach to allocate NDM
- Calculate WCF using the pre-Nexus calculation
- Apportion the UIG using the weighted scaling factor
- Addition of new batch to identify settlement relevant meter points
- Changes to UG Smearing process to consider the above factors
- One retrospective smearing to be performed based on the implementation date, if not possible offline

MOD 642A: Changes to settlement regime to address Unidentified Gas issues with current NDM allocation approach

- Calculate daily UIG as a fixed percentage of throughput
- Follow Existing approach to allocate NDM
- Balancing quantity shared on allocation to class 3 and 4
- No UIG Weighting factor used in UIG allocation
- Changes to UKLINK to consider balancing quantity in UG Smearing process

MOD 643: Changes to settlement regime to address Unidentified Gas issues including retrospective correction

- Calculate daily UIG as a fixed percentage of throughput
- Follow top down approach to allocate NDM
- Calculate WCF using the pre-Nexus calculation
- Apportion the UIG using the weighted scaling factor
- Addition of new batch to identify settlement relevant meterpoints
- Changes to UG Smearing process to consider the above factors
- Changes to Rec process to smear UIG across unreconciled meters in past 12 months

Mod 642 – Impacted Components

Impacted Application	Impacted System Component	Development Type	End User Impacted?	New / Existing Build?	High level description of change	Complexity		
						Change Complexity	Test	Performance
Gemini	NDM Nomination	Batch Job	Xoserve/ Shippers	Existing	Code change to calculate fixed percentage of UIG and follow top-down approach			
	NDM Allocation	Batch Job	Xoserve/ Shippers	Existing	Code change to calculate fixed percentage of UIG and follow top-down approach			
	Parameter Screen	Online Screen	Xoserve	Existing	Change to parameterise the UIG percentage			
	CWF and S11	Interfaces	Xoserve/ Shippers	Existing	Files to be de-commissioned			
	S04	Interfaces	Xoserve/ Shippers	Existing	Re-instate the file			
	Accepted SNCWV Values Report – S11	Online Report	Xoserve	Existing	To be de-commissioned			
	NDM NOMs/Allocation Batch Schedule	Batch Jobs	Xoserve	Existing	Changes to Job Schedule.			
UKLINK	Identified at MPRN level if the meter has reconciled or not	Batch Job	Xoserve	New	Post Charge calculation job that runs daily, identify the MPRN's and mark them as reconciled or not			
	UIG Smearing across unreconciled meter points	Batch Job	Xoserve	Existing	Change to be made in the smearing function to smear the gas across unreconciled meter points			

Estimated Delivery timescales: 46 weeks

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Mod 642a – Impacted Components

Impacted Application	Impacted System Component	Development Type	End User Impacted?	New / Existing Build?	High level description of change	Complexity		
						Change Complexity	Test	Performance
Gemini	Parameter Screen	Online Screen	Xoserve	Existing	Change to parameterise the UIG percentage			
	UIG Nominations	Batch Job	Xoserve/Shippers	Existing	Code changes to calculate the UIG as a fixed percentage			
	UIG Allocations	Batch Job	Xoserve/Shippers	Existing	Code changes to calculate the UIG as a fixed percentage			
UKLINK	Changes to UG smearing process	Batch Job	Xoserve / Shippers	Existing	Changes to UKLINK to consider balancing quantity in UG Smearing process			

Estimated Delivery timescales: 35 weeks

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Mod 643 – Impacted Components

Impacted Application	Impacted System Component	Development Type	End User Impacted?	New / Existing Build?	High level description of change	Complexity		
						Change Complexity	Test	Performance
Gemini	NDM Nomination	Batch Job	Xoserve/ Shippers	Existing	Code change to calculate fixed percentage of UIG and follow top-down approach			
	NDM Allocation	Batch Job	Xoserve/ Shippers	Existing	Code change to calculate fixed percentage of UIG and follow top-down approach			
	Parameter Screen	Online Screen	Xoserve	Existing	Change to parameterise the UIG percentage			
	CWF and S11	Interfaces	Xoserve/ Shippers	Existing	Files to be de-commissioned			
	S04	Interfaces	Xoserve/ Shippers	Existing	Re-instate the file			
	Accepted SNCWV Values Report – S11	Online Report	Xoserve	Existing	To be de-commissioned			
	NDM NOMs/Allocation Batch Schedule	Batch Jobs	Xoserve	Existing	Changes to Job Schedule.			
UKLINK	Identified at MPRN level if the meter has reconciled or not	Batch Job	Xoserve	New	Post Charge calculation job that runs daily, identify the MPRN's and mark them as reconciled or not			
	UIG Smearing across unreconciled meter points	Batch Job	Xoserve	Existing	Change to be made in the smearing function to smear the gas across unreconciled meter points for last 12 months			

Estimated Delivery timescales: 50 weeks

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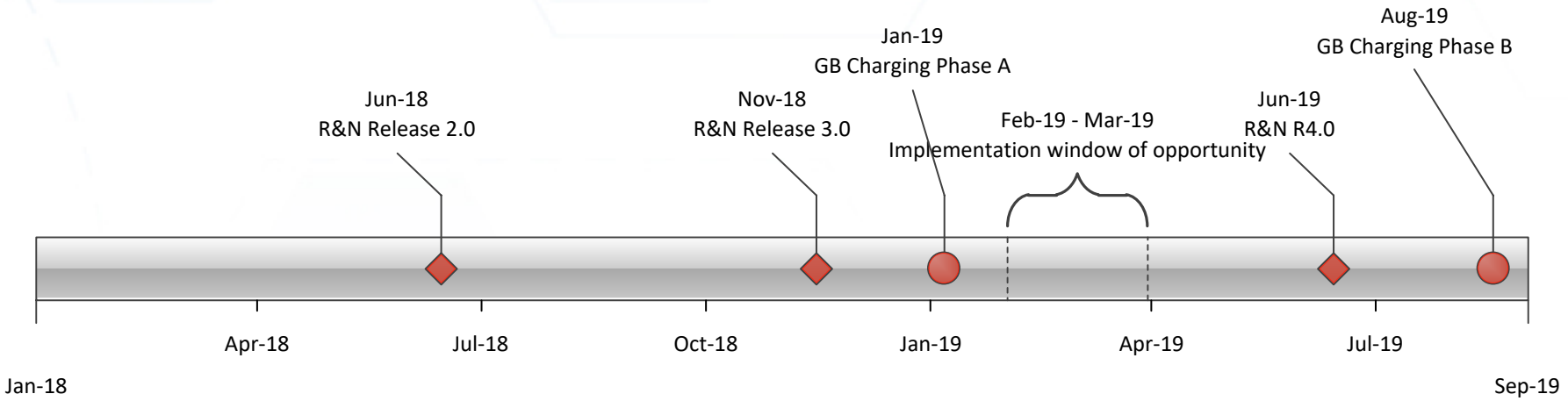
Possible Implementation Options



OPTIONS

- Remove elements of release 3.0 to accommodate quicker delivery – potential movement of Implementation date (not possible for timescales associated with mod 642 and mod 643)
- Implement in Feb/Mar 19 and manage conflicts with release 3.0 and 4.0
- Include UIG changes into the scope of release 4.0 and deliver in Jun-19

Estimated Implementation timescales & Costs

Mod 642	Mod 642a	Mod 643
Estimated elapsed timescales		
46 weeks	35 weeks	50 weeks
Estimated delivery costs		
Circa £2 million	Circa £1 million	Circa £2.2 million

Costs associated with each of the options include additional environments in order to deliver the solution within the required timescales and risk margins have been applied

Timescales include the following common elements	
Governance	4 weeks
Market Trials	12 weeks
Implementation Prep and Dress Rehearsals	4 weeks

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