



**MOD 644 - Creation of New End User  
Categories  
System Solution Assessment**

27<sup>th</sup> June 2018

# Change Overview

## Change ID

## Change Description

**XRN 4665**

- As per the EUC derivation process, the 3 factors considered Local Distribution Zone, Annual Quantity and WAR band will have 2 additional parameters i.e. Market sector and Meter type.
- The Market Sectors defined are Domestic Supply Meter points and I&C Supply meter points. Also the meter type has been categorised as Prepayment & Non-Prepayment.
- Based on the new derivations, there needs to be a split of 4 new bands under the EUC 01 & 02 Band.
- Proposed new EUC Profiles for SMPs with a Rolling AQ in the AQ range for EUC Band EUC01:
  - ✓ xx:Eyy01ND assigned to Non-Prepayment Domestic Supply Meter Points
  - ✓ xx:Eyy01PD assigned to Prepayment Domestic Supply Meter Points
  - ✓ xx:Eyy01NI assigned to Non-Prepayment I&C” Supply Meter Points
  - ✓ xx:Eyy01PI assigned to Prepayment I&C” Supply Meter Points
- Proposed new EUC Profiles for SMPs with a Rolling AQ in the AQ range for EUC Band EUC02:
  - ✓ xx:Eyy02ND assigned to Non-Prepayment Domestic Supply Meter Points
  - ✓ xx:Eyy02PD assigned to Prepayment Domestic Supply Meter Points
  - ✓ xx:Eyy02NI assigned to Non-Prepayment I&C” Supply Meter Points
  - ✓ xx:Eyy02PI assigned to Prepayment I&C” Supply Meter Points
- The above EUC Codes have been specified for discussion purposes. Other EUC Code conventions could be discussed.
- Assuming the UIG share factor values may/may not vary for the new EUCs across Class, there are 2 proposed solutions as outlined in coming slides.

# Solution & Delivery Options Considered

## Solution Options

Option 1 – New EUC with different UIG Share factor

Option 2 – New EUC with same UIG Share factor

## Delivery Options

Option A – Implement as part of Release (Feb / Jun 2019)

Option B – Implement as part of New Gas Year (October 2019)

# Solution Option 1

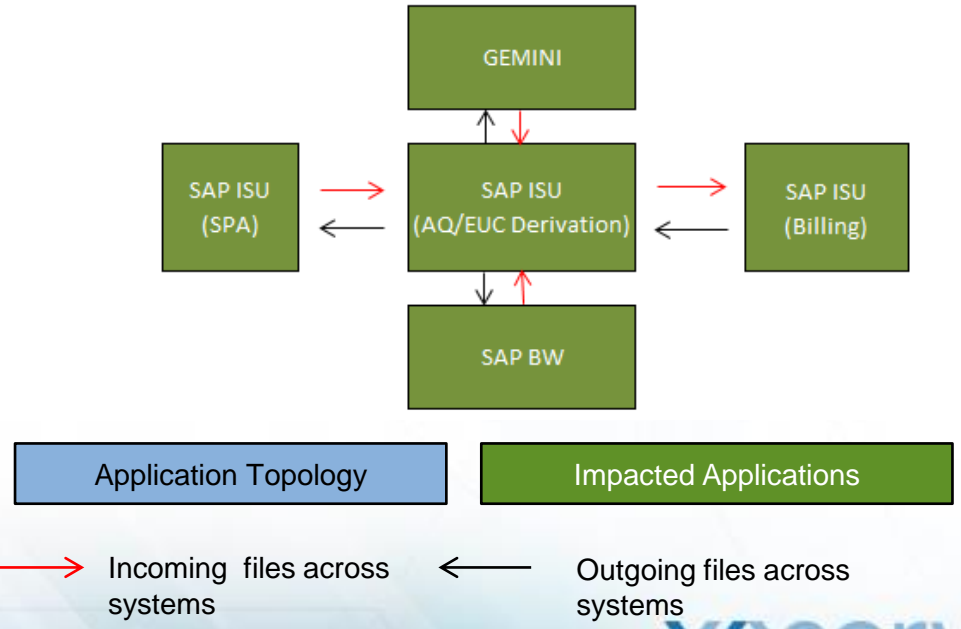
## High Level Solution Description - New EUC with different UIG Share factor

EUC Band	Proposed EUC Code	Meter Type	Market Sector
EUC01	xx:Eyy01PD	Prepayment	Domestic SMP
	xx:Eyy01PI	Prepayment	I&C SMP
	xx:Eyy01ND	Non - Prepayment	Domestic SMP
	xx:Eyy01NI	Non - Prepayment	I&C SMP
EUC02	xx:Eyy02PD	Prepayment	Domestic SMP
	xx:Eyy02PI	Prepayment	I&C SMP
	xx:Eyy02ND	Non - Prepayment	Domestic SMP
	xx:Eyy02NI	Non - Prepayment	I&C SMP

File Format Change	Process
Yes	SPA, Billing, AQ/EUC Derivation, Gemini, SAP BW

Batch Job	Reporting Requirement
Yes	Yes

Performance Impact Envisaged?	Complexity
No	High



# System Impact Assessment – Solution Option 1

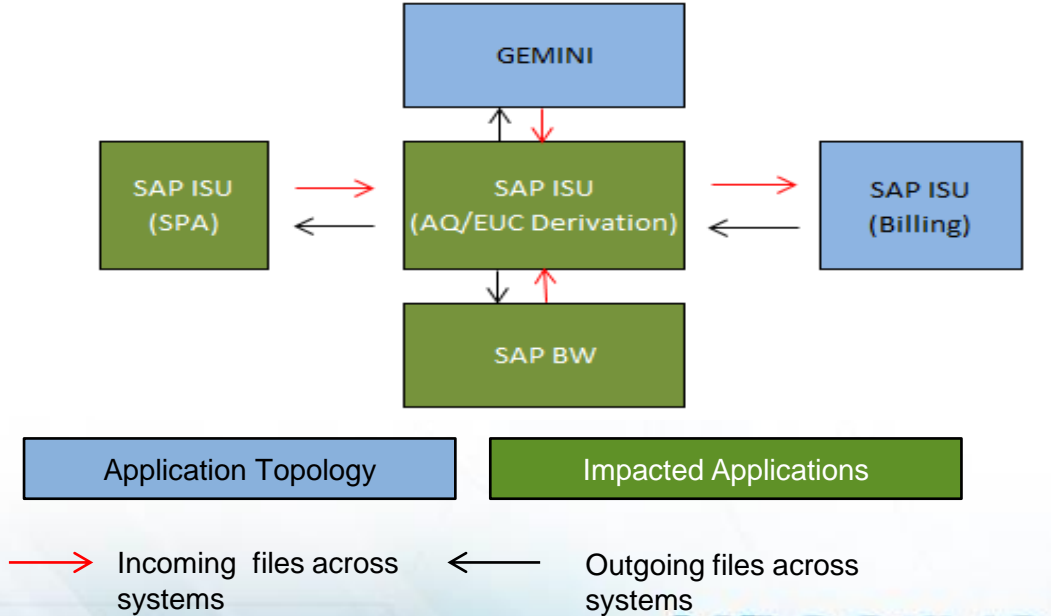
Application	Impacted System Component	Development Type	End User Impacted ?	New / Existing Build?	High level description of change in the component	Perceived Complexity
SAP ISU (SPA/ AQ&EUC Derivation/ Billing)	Batch Job	Workflow	Xoserve/ Shippers	Existing	EUC Derivation for Shipper Registration (Greenfield sites only)	High
	Batch Job	Workflow	Xoserve	Existing	AQ Correction	High
	Batch Job	Workflow	Xoserve	Existing	Exit Zone Changes	Medium
	Batch Job	Workflow / Online	Xoserve	Existing	Address amendment	High
	Batch Job	Workflow	Xoserve	Existing	Site Takeover process	Medium
	Batch Job	Workflow	Xoserve	Existing	Annual EUC Updates	Medium
	Batch Job	Workflow	Xoserve	Existing	Monthly Rolling AQ	Medium
	Batch Job	Interface	Xoserve	Existing	Generation of MDS / AAQ / CON files	Medium
	Batch Job	Workflow / Interface	Xoserve/ Shippers	Existing	Unidentified Gas Smear will include all the new EUC not at aggregated level for 01 & 02 Bands due to the variation of UIG share factor	High
SAP BW	Report	Workflow	Xoserve	Existing	IP383 Final_Analysis	Medium
	Report	Workflow	Xoserve	Existing	SGN_Datalogger_Report	Medium
	Report	Workflow	Xoserve	Existing	Network AQ Portfolio Report	Medium
	Report	Workflow	Xoserve	Existing	All_Uninvoiced_Variiances_WithEUC	High
	Report	Workflow	Xoserve	Existing	EUC DSO Modification	High
GEMINI	Report	Workflow	Xoserve	Existing	Unidentified Shipper Share file will undergo change in order to accommodate all the new EUC not at aggregated level for 01 & 02 Bands due to the variation of UIG share factor	High

# Solution Option 2

## High Level Solution Description - New EUC with same UIG Share factor

EUC Band	Proposed EUC Code	Meter Type	Market Sector
<b>EUC01</b>	xx:Eyy01PD	Prepayment	Domestic SMP
	xx:Eyy01PI	Prepayment	I&C SMP
	xx:Eyy01ND	Non - Prepayment	Domestic SMP
	xx:Eyy01NI	Non - Prepayment	I&C SMP
<b>EUC02</b>	xx:Eyy02PD	Prepayment	Domestic SMP
	xx:Eyy02PI	Prepayment	I&C SMP
	xx:Eyy02ND	Non - Prepayment	Domestic SMP
	xx:Eyy02NI	Non - Prepayment	I&C SMP

<b>File Format Change</b>	<b>Process</b>
No	SPA, AQ/EUC Derivation, SAP BW
<b>Batch Job</b>	<b>Reporting Requirement</b>
Yes	Yes
<b>Performance Impact Envisaged?</b>	<b>Complexity</b>
No	High



# System Impact Assessment – Solution Option 2

Application	Impacted System Component	Development Type	End User Impacted?	New / Existing Build?	High level description of change in the component	Perceived Complexity
SAP ISU (SPA/ AQ&EUC Derivation)	Batch Job	Workflow	Xoserve/ Shippers	Existing	EUC Derivation for Shipper Registration (Greenfield sites only)	Green
	Batch Job	Workflow	Xoserve	Existing	AQ Correction	Yellow
	Batch Job	Workflow	Xoserve	Existing	Exit Zone Changes	Yellow
	Batch Job	Workflow / Online	Xoserve	Existing	Address amendment	Yellow
	Batch Job	Workflow	Xoserve	Existing	Site Takeover process	Yellow
	Batch Job	Workflow	Xoserve	Existing	Annual EUC Updates	Yellow
	Batch Job	Workflow	Xoserve	Existing	Monthly Rolling AQ	Green
	Batch Job	Interface	Xoserve	Existing	Generation of MDS / AAQ / CON files	Green
SAP BW	Report	Workflow	Xoserve	Existing	IP383 Final_Analysis	Yellow
	Report	Workflow	Xoserve	Existing	SGN_Datalogger_Report	Yellow
	Report	Workflow	Xoserve	Existing	Network AQ Portfolio Report	Yellow
	Report	Workflow	Xoserve	Existing	All_Uninvoiced_Variances_WithEUC	Yellow
	Report	Workflow	Xoserve	Existing	EUC DSO Modification	Yellow



# Impacted Interfaces - External

File Type	Interface description	From	To	Business Process
CAI	CSEP Amendments	iGTs	Xoserve	Stakeholder, RGMA, SPA
CAO	CSEP Amendment Response	Xoserve	iGTs	Stakeholder, RGMA, SPA
CCN	CSEP warning notification during CSEP creation and amendment	Xoserve	GTs/iGTs	Stakeholder, RGMA, SPA
CFR	Confirmation Response File	Xoserve	Shipper	Stakeholder, RGMA, SPA
CIC	CSEP Creation File	iGTs	Xoserve	Stakeholder, RGMA, SPA
CIN	Inconsistency/update Notification to GT/iGT	Xoserve	GTs/iGTs	Stakeholder, RGMA, SPA
CIR	CSEP acceptance/rejection	Xoserve	iGTs	Stakeholder, RGMA, SPA
CUN	Create Amendment Notification File	Xoserve	GT/iGT	Stakeholder, RGMA, SPA
DDS	Annual Demand Extract	Xoserve	GTs	BW
DDU	DDS Extract	Xoserve	GTs	Stakeholder, RGMA, SPA
EUC	Notification of EUC Definitions	Xoserve	Shipper	Weather Variance Correction
EXZ	Exit Zone Notification	Xoserve	Shipper	Stakeholder, RGMA, SPA

All the interfaces will have the new allowable values like EUC Code, EUC Description, EUC Band added to it.

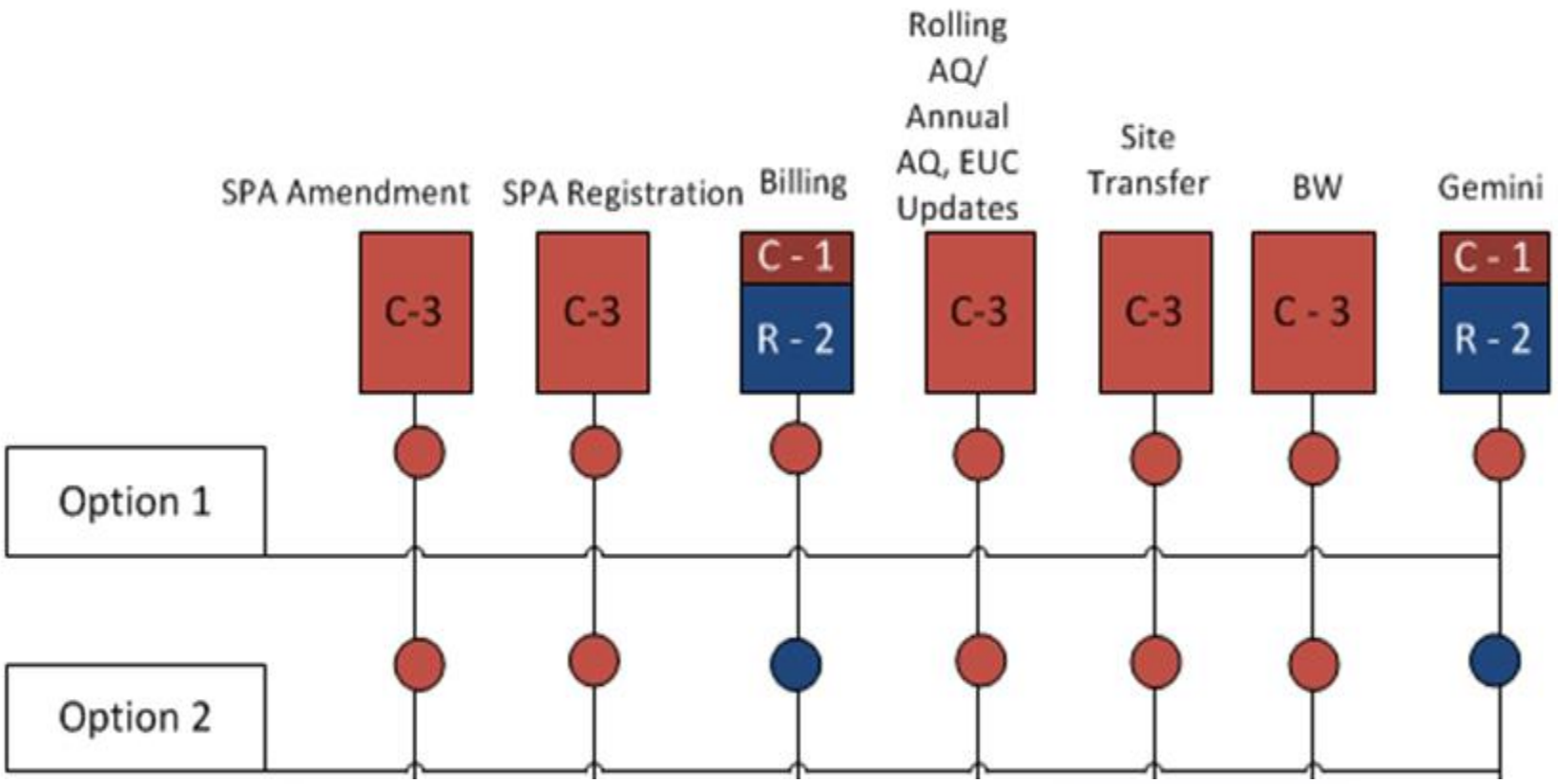


# Impacted Interfaces – External

File Type	Interface description	From	To	Business Process
IDL	Daily Delta File	Xoserve	IGTs	Stakeholder, RGMA, SPA
IIL	Portfolio Data	Xoserve	iGTs	BW
IQL	Portfolio Data	Xoserve	iGTs	BW
LPA	Profile Allocation Invoice	Xoserve	Shipper	Settlement
NMR	Nomination Response	Xoserve	Shipper	Stakeholder, RGMA, SPA
NNL	GT and IGT notification file	Xoserve	GTs / iGTs	AQ Notification
NRF	Nomination Referrals Response	Xoserve	Shipper	Stakeholder, RGMA, SPA
NRL	Notification of Revisions to Live Sites	Xoserve	Shipper	AQ Notification
RAT	Ratchet Notification File	Xoserve	Shipper	Settlement
TRF	Transfer of Ownership	Xoserve	Shipper	Stakeholder, RGMA, SPA

All the interfaces will have the new allowable values like EUC Code, EUC Description, EUC Band added to it.

# Change Impact Summary



- Direct Change Impact Process Areas
- Low Impacts considered whilst defining solution

# Recap – Solution Summary

#	Option ID	Impacted Process Area	Complexity	Impacts to File Formats?	Impacts on Exceptions?	Performance Testing Required?	External Screen Changes?
1	Option 1	SPA, AQ/EUC Derivation, Billing, SAP BW, Gemini	High	Yes	No	No	No
2	Option 2	SPA, AQ/EUC Derivation, SAP BW	High	Yes	No	No	No

# Delivery Options

Options	Description	Pros	Cons
<p><b>Option A</b> (Feb / Jun 2019)</p>	<ul style="list-style-type: none"> <li>Implement in the mid Gas year</li> </ul>	<ul style="list-style-type: none"> <li>Sufficient time available to baseline requirements</li> <li>Full solution with one off delivery activities to deliver full solution</li> <li>Conforms to Release schedule</li> <li>Sufficient time for the wider customers to modify their internal systems for the new changes</li> <li>Complete end to end testing with be carried out</li> </ul>	<ul style="list-style-type: none"> <li>Mid gas year deployment will have some additional checks to be taken care of.</li> <li>Re-work for all the yearly activities as part of new gas year to be taken place will be carried out</li> <li>External annual files to be re-sent to the Shippers /GTs/ iGTs for loading</li> <li>Shippers to amend their internal system to load such annual files.</li> </ul>
<p><b>Option B</b> (October 2019)</p>	<ul style="list-style-type: none"> <li>Implement as before the next year's Gas Year</li> </ul>	<ul style="list-style-type: none"> <li>Sufficient time available to baseline requirements</li> <li>Full solution with one off delivery activities to deliver full solution</li> <li>Conforms to Release schedule</li> <li>Sufficient time for the wider customers to modify their internal systems for the new changes</li> <li>Complete end to end testing with be carried out</li> <li>No additional activities to be carried out with respect to New Gas year</li> </ul>	<ul style="list-style-type: none"> <li>Shippers to continue the experience excessive levels of volatility with respect to UIG, Nominations and Reconciliation</li> </ul>

# Delivery/Solution Options Assessment

Delivery Options	Solution Option 1 £275,000 to £330,000			Solution Option 2 £250,000 to £300,000		
	Delivery	Quality	Customer	Delivery	Quality	Customer
<b>Option A</b> (Feb 2019 / June 2019)	Low	Medium	Medium	Low	Medium	Low
<b>Option B</b> (October 2019)	Low	Low	Low	Low	Low	Low

**Key:**

- High, Medium & Low relates to the risk to Delivery, Quality & Customer for each Delivery & Solution Option
- RAG status of Red, Amber & Green relates to the assessment against each Delivery & Solution Option
- The Delivery Timelines is circa 23 weeks
- Costs and Timescales assume no Market Trials

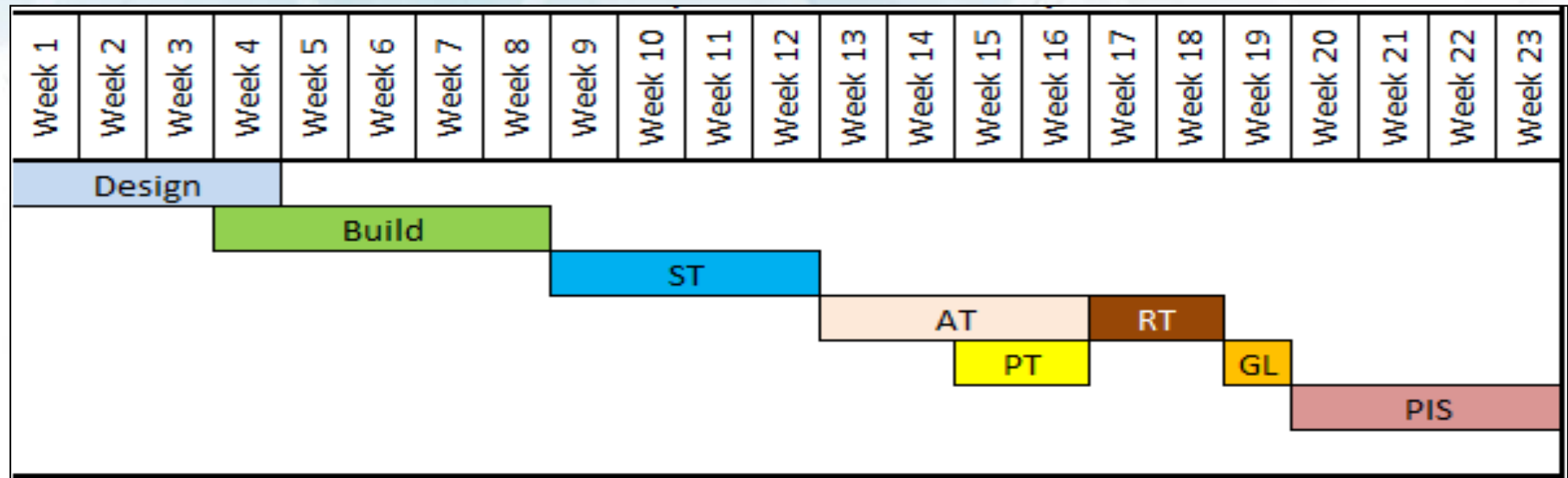
# High Level Implementation Approach

Options	Deployment Date (As per the Release Norms)	Go Live
February 2019	<ul style="list-style-type: none"> <li>Start date of the delivery should be 1<sup>st</sup> October 2018.</li> <li>The deployment date will be on first Friday of Feb i.e. 01/02/2019.</li> </ul>	<ul style="list-style-type: none"> <li>Cutover window will be for 1-2 weeks</li> <li>All EUC's will be Live and effective from 1<sup>st</sup> March 2019</li> </ul>
June 2019	<ul style="list-style-type: none"> <li>Start date of the delivery should be 18<sup>th</sup> Feb 2019.</li> <li>The deployment date will be on last Friday of June i.e. 28/06/2019.</li> </ul>	<ul style="list-style-type: none"> <li>Cutover window will be for 1-2 weeks</li> <li>The T67 will contain the relevant information in July</li> <li>EUC should be Live and effective from 1<sup>st</sup> August 2019.</li> </ul>
October 2019	<ul style="list-style-type: none"> <li>Start date of the delivery should be 18<sup>th</sup> Feb 2019.</li> <li>The deployment date will be on last Friday of June i.e. 28/06/2019.</li> </ul>	<ul style="list-style-type: none"> <li>Cutover window will be for 1-2 weeks</li> <li>The T67 will contain the relevant information in July</li> <li>EUC will be Live and effective from 1<sup>st</sup> October 2019</li> </ul>
	<ul style="list-style-type: none"> <li>Start date of the delivery should be 29<sup>th</sup> April 2019.</li> <li>The deployment date will be on first Friday of September i.e. 06/09/2019.</li> <li>This is not inline with major release drop dates agreed with industry.</li> </ul>	<ul style="list-style-type: none"> <li>Cutover window will be for 1-2 weeks</li> <li>EUC will be Live from 1st October 2019</li> <li>The T67 will need to be considered, with a potential ad-hoc run, for this scenario</li> </ul>

\*\* Cutover Window includes the generation / loading of interfaces both internal & external.



# High Level Delivery Timeline



## Key Points to note:

- Single Design phase includes both High Level Design & Detailed Design
- The solution caters only to the existing Market sector code and Meter type combination
- A Market Trials phase hasn't been considered (in both efforts & commercials)
- Implementation Dress Rehearsal not considered (in both efforts & commercials)

# Scope

- Dynamic creation of bands based on varied data conditions.
- No new transition rules have been considered.
- No change intended to any other bands other than EUC01B/EUC02B.
- Change will be done perspective as compared to retrospective.
- Back Billing Scenarios are not in scope to plug EUC bands based on prepayment and market sector code.
- Data cleansing activities won't take place considering the complexity of the functionality which will result into data discrepancy.



# Glossary of Terms

Ref #	Abbreviation	Description - Definition
1	ISU	Industry Specific Solution for Utilities
2	EUC	End User Category
3	AQ	Annual Quantity
4	SAP BW	SAP Business Warehouse
5	WAR	Winter Consumption Band
6	SPA	Supply Point Administration
7	MDS	Meter Details
8	AAQ	Annual Quantity file
9	CON	Measurement Read file

# Any Questions

