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# Project Nexus Workgroup

**Reconciliation Meeting 1** 

## Contents

- Background and Context
- Objectives of the Workgroup
- Objectives of this meeting
- Recap on High-level Principles
- Initial areas for discussion





- PN UNC Workgroup April meeting agreed to commence work on gathering requirements for remaining topics following SMIP announcement
- Reconciliation is next logical topic, now that Settlement rules are well-developed



# **Objectives of the Workgroup**

- Determine detailed business requirements for future Reconciliation of all Supply Points
- Consider the comments raised in the Initial Requirements Register and either include in future requirements or agree to close
- Provide sufficient definition around business rules to:
  - Enable the proposed requirements to be incorporated in xoserve's investment decisions, and
  - Support the raising of any UNC Modification
    Proposals, if required



## Approach to Workgroup

- High level principles already defined under "Reconciliation" topic
- Need to revisit/validate the principles as first step
- Ensure interactions with Settlement are correct and complete
- Need to continue to monitor and align with Smart outcomes



# Scope of "Reconciliation"



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# **Recap on High-Level Principles**

- Preferred option was for daily settlement with reconciliation as an exception process
  - This is still a longer term aspiration for some participants
- Alternative was for daily or periodic rec
- Aspiration to reduce/remove Filter Failures
- Proposal to apply rollover tolerance to reconciliations



# **Current Scope of Reconciliation**

- Daily Metered sites
  - Correction of energy apportionment after a period of estimates
  - Apportionment of Drift identified at a resynch

Separate discussions required on Drift

- Non Daily Metered
  - Apportionment of Actual Energy following receipt of periodic read

Focus of this presentation



# NDM Reconciliation – What Scenarios

- Where Periodic
  Reads are the Norm
  - Reconcile back to last read received – against allocated energy for a number of days
- Where Daily Reads
  are the Norm
  - Scenario 1 all daily reads are received
  - Scenario 2 reads are received with gaps within or between batches



# Initial Areas for Discussion

- Periodic reconciliation
- Roll-over tolerances
- Daily reconciliation
- Filter Failures
- Reconciliation Neutrality





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# **Periodic Reconciliation**

### **Current Principles of NDM Reconciliation**

- Reconciliation Energy must be attributed to individual days, although reads cover a number of days
- Why?
  - Know what daily SAP rates to apply
  - Know what transportation rates to apply
- How?
  - Using the NDM (LPA Factors) reconciliation energy is apportioned in same "shape" as original allocation
  - Daily estimated reads are **not** required



### Apportionment of Actual Energy for a Period



Time

- Use of factors apportions energy in same daily "shape" as original allocation
- More Rec energy on higher allocation days
- Factors are specific to LDZ and End User Category

- Actual reads
- Original Allocation
- ---- Reconciliation Energy



# **Treatment of Reconciliation Energy**

- Higher allocation days receive higher reconciliation energy
- Individual daily read estimates are not required for this approach
- Achieved through use of Reconciliation Factor and LPA Factors



REC QUANTITY = 40 ORIGINAL QUANTITY = 200 REC FACTOR = 0.2 DAILY REC QUANTITY = 40/200 \* ORIGINAL DAILY QUANTITY



**Options for Reconciliation** 

• Are there any alternative approaches required for periodic reconciliation?



#### **Treatment of Reconciliation – Other Options**

- ALTERNATIVE 1 Straight line method – additional energy divided across days in period
  - Simpler to calculate and understand
  - Takes no account of usage patterns/allocations



REC QUANTITY = 40 DAYS IN PERIOD = 4 DAILY REC QUANTITY = 40/4



#### **Treatment of Reconciliation – Other Options**



REC QUANTITY = 40 ORIGINAL QUANTITY = 200 DAILY REC QUANTITY = 40 (final day)

- ALTERNATIVE 2 Last Day method – apply all energy to last day in rec period
  - Simpler to calculate and understand
  - Takes no account of usage patterns/allocations



**Treatment of Reconciliation – Other Options** 

- ALTERNATIVE 3 (Could combine with other alternatives)
  - Only reconcile energy
  - Commodity element not reconciled due to immateriality
  - Halves the number of transactions and invoices





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#### **Reconciliation - Rollover Tolerances**

## **Rollover Tolerances**

- Proposal to apply rollover tolerance to reconciliations in High-Level Principles
- Low value reconciliations are not invoiced but rolled over until total balance exceeds a tolerance
- Reduces number of low-values invoices/ charges



# Application of Tolerances - Example



Example of a 1,000 kWh roll-over tolerance for invoicing Values based on worked example in High Level Principles document



## **Tolerances – Business Rules Required**

- Selection of Parameters
  - £ energy/transportation/combined
  - kWh value
- Setting of parameters
  - By AQ band?
  - By usage type?
- Treatment of any rolled over amounts at close-out





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**Daily Reconciliation** 

## Daily Reconciliation – Process 3

- Process 3 daily estimation followed by batches of daily reads
- Scenario 1 All daily reads received
  - What rules for tolerances?
  - Any simplification options to reduce complexity?



## Daily Reconciliation – Process 3

- Scenario 2 Gaps between batches or within batches
  - Any difference from Process 4 reconciliations
    periodic reads?
  - Any simplifications to apply?
  - What rules for tolerances?





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### **Reconciliation Filter Failure Regime**

# **Current Filter Failure Regime**

- NDM Reconciliations currently subject to tolerance check and possible suppression prior to release
  - User Suppressed Reconciliation Values USRVs
- Current tolerances applied to LDZ Commodity charges per day
  - E.g. 47p per day debit or credit in Bands 1 & 2
- Shipper must investigate and correct/ approve prior to invoicing



# Filter Failure Regime – Pros and Cons

- Benefits
  - Individual Shippers protected from large erroneous values
  - Industry protected from opposite impacts of erroneous values
  - Current Commodity based regime easily understood
  - Fallback to GT after 30 months

- Drawbacks
  - Delay to processing of reconciliation while suppressed
  - Time required to investigate and correct
  - Incentives required to ensure timely investigation
  - Need to review limits every time transportation rates change



## **Current Tolerance Levels**

Supply Point AQ Band (kWh)	Daily LDZ Commodity charge from 1/10/08 (debit or credit - £)
73,200 -292,999	0.47
293,000 -731,999	0.47
732,000 -2,195,999	0.91
2,196,000 -5,859,999	1.32
5,860,000 -14,649,999	1.75
14,650,000 -29,299,999	1.75
29,300,000 -58,599,999	1.75
58,600,000 +	1.75



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## Filter Failures – Areas for Consideration

- Is a suppression mechanism still required prior to invoicing? (Recommendation yes)
- What basis for suppression £/ kWh
- Any changes to incentives
- Any changes to fallback arrangements?
- Need to define framework and nature of parameters *actual values not required yet?*





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# Treatment of Reconciliation Neutrality

# **Reconciliation Neutrality**

- Principles included aspiration to move away from RbD
- Energy must still be kept whole following each reconciliation
- Allocation Scaling Adjustment shares out unidentified gas each day
- Reconciliation changes the amount of unidentified gas – "Reconciliation Neutrality"



# **Initial Energy Allocation**

- Unidentified energy shared out at Shipper level – not site level
- Shared in proportion to initial measurements/ allocations



Shippers A to E





# **Reconciliation Energy**

- Reconciliation may be +ve or -ve
- Changes the unidentified energy position
- Need to change each Shipper's Scaling position following any reconciliation



Shippers A to E



Α

Reconciled Energy



#### **Treatment of Scaling after Reconciliation**

- OPTION 1 recalculate share of unidentified gas based on original proportions
- Minimal change in amounts from first allocation
- Takes no account of erroneous initial measurements



Shippers A to E



#### **Treatment of Scaling after Reconciliation**



Shippers A to E





Share of unidentified gas

- OPTION 2 recalculate share of unidentified gas based on latest measurements/ estimates proportions
- Corrects for errors in initial measurements
- Share of unidentified gas may be more volatile



### Treatment of Scaling after Reconciliation

- Xoserve recommendation
  - Base the share of unidentified gas on latest measurements (Option 2)
  - More complex calculation
  - More volatility
  - But removes any "incentive" to understate initial measurement/estimates
- Billed at Shipper level what rate of transportation is applied?

