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Project Nexus UNC Workgroup

Resynchronisation – 21 June 2011

Resynchronisations - Background

- Resynchronisation is a sub-set of reconciliations
  - Relates to the treatment of “drift”
  - Sites where meter reads are “derived” by reading equipment, e.g. datalogger, have capacity for derived read to drift from actual meter reading
- Principles and business rules required for these scenarios
- Can current DM Rules be aopted/ adapted?

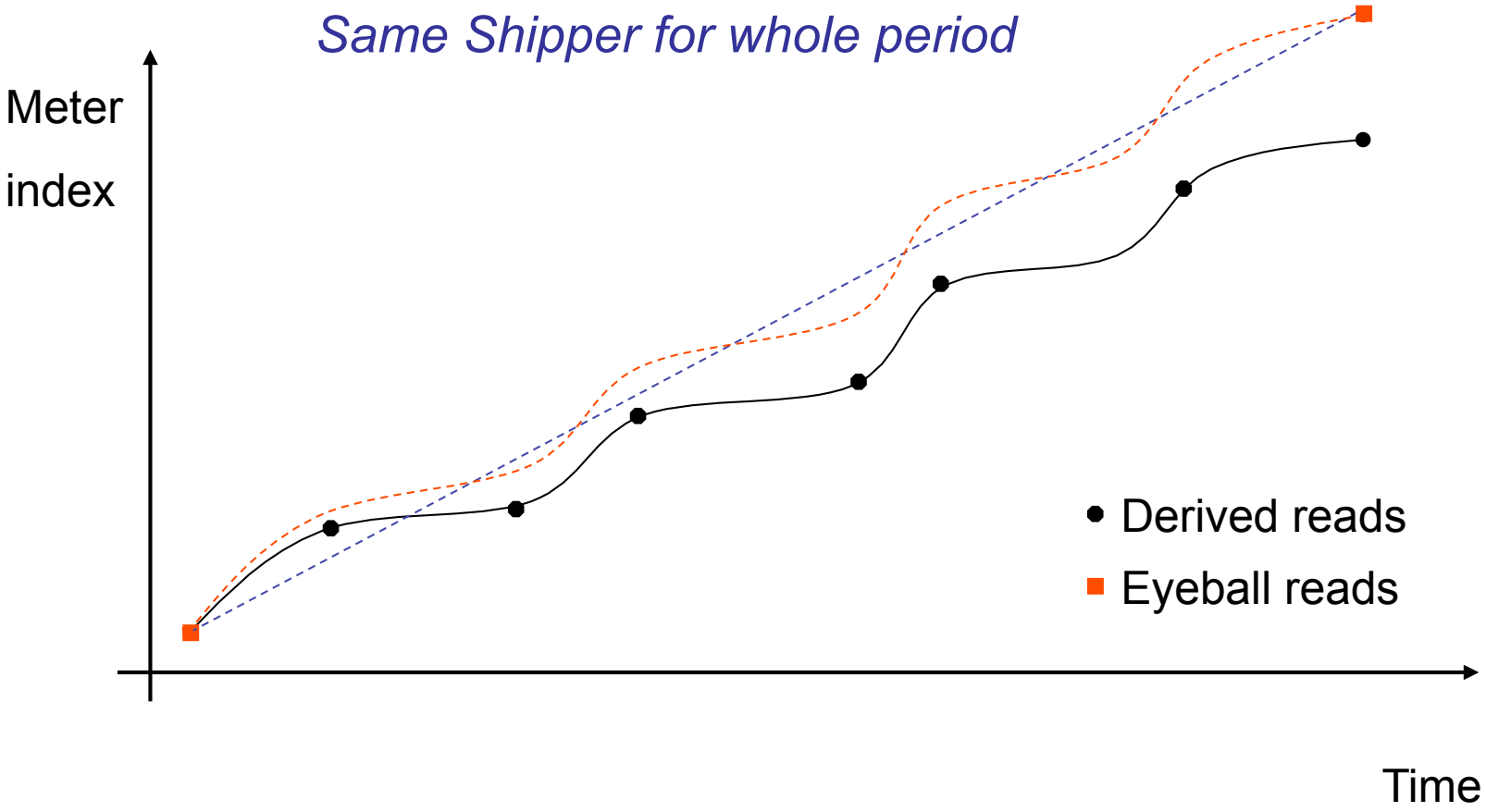
Resynchs – What Scenarios

- Scenario 1
  - Actual read transmitted to meter operator e.g. Smart meter or optical reader
  - ✗ No opportunity for "drift" between physical meter reading and operator's records
- Scenario 2
  - Pulses (or other method) used to derive a meter reading by incrementing from previous reading
  - √ Opportunity for drift arises between physical meter reading and operator's records

Resynchs – Business Rules Required

- Require business rules for treatment of drift between physical meter and meter operator records
  - Usually identified by eyeball reading (check read)
  - Settlement Topic is defining rules for frequency of check reads
- Rules required for reconciliation treatment of drift:
  - Same Shipper for whole resynch period
  - Change(s) of Shipper during period

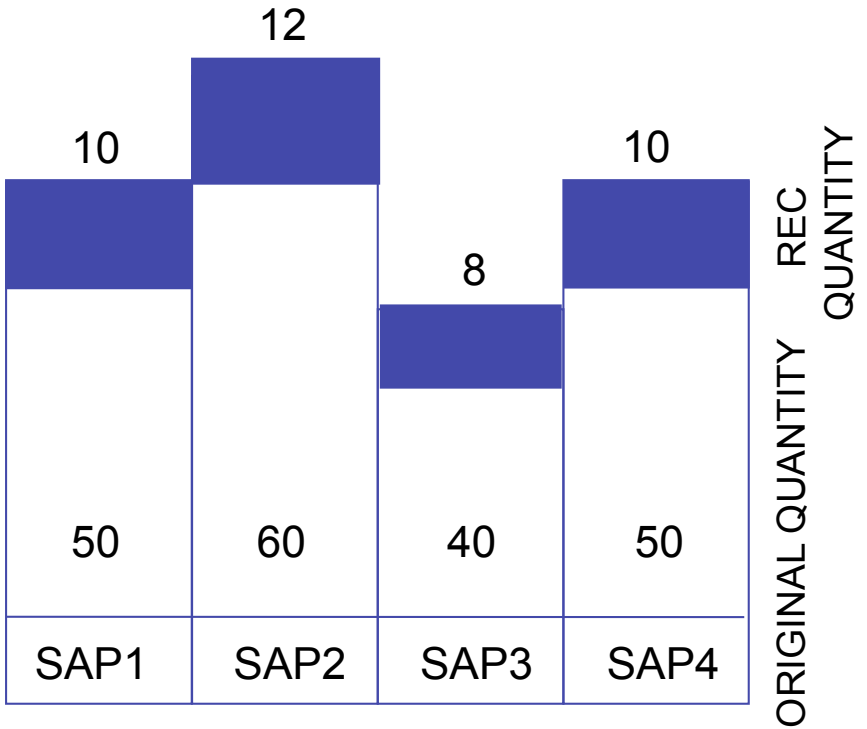
Drift – Actual v Derived Readings



– Intermediate derived reads have created individual measurements or reconciliations

Treatment of Drift – DM Regime

- Meter Drift deemed to occur consistently across whole period from last Resynchronisation
- Meter Drift is apportioned (“pro-rated”) in line with the original amount of recorded energy



REC QUANTITY = 40
ORIGINAL QUANTITY = 200
DAILY REC QUANTITY = 40/200 * ORIGINAL DAILY QUANTITY

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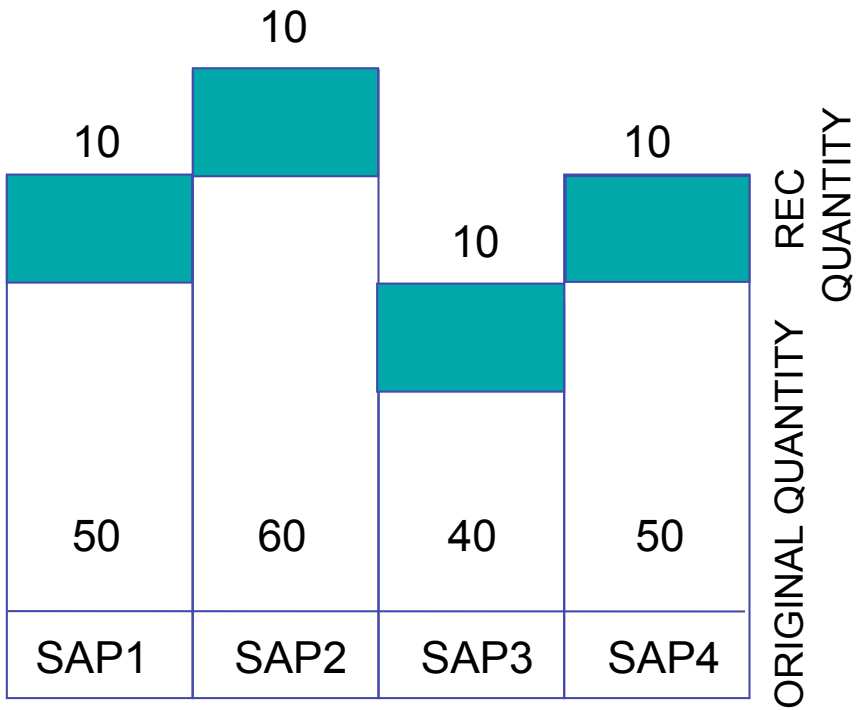
Treatment of Resynchs – Other Options

- 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
ORIGINAL QUANTITY = 200
DAILY REC QUANTITY = 40/4

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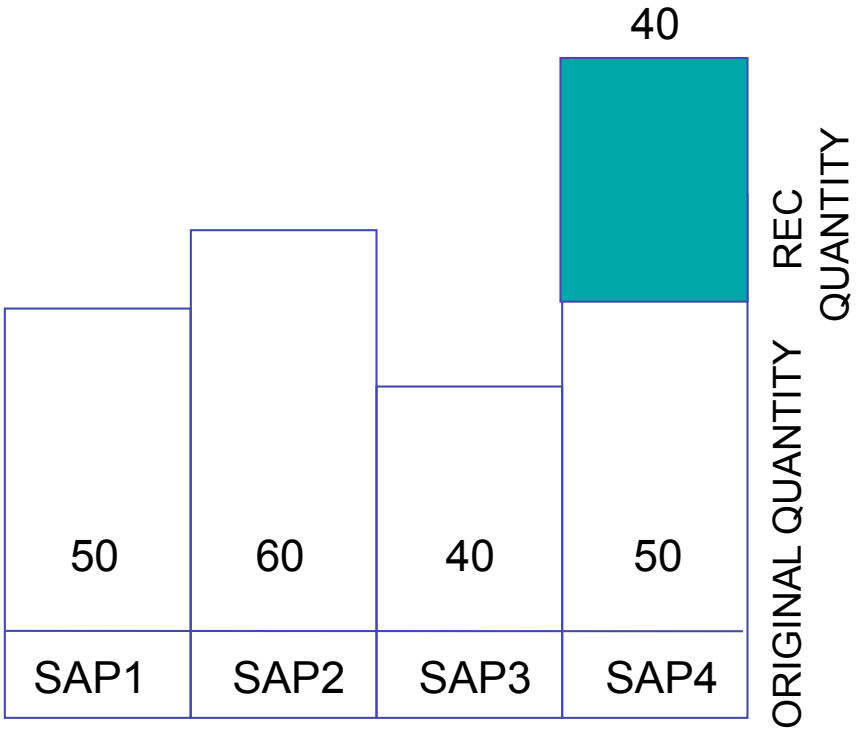
Treatment of Resynchs – Other Options

- 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



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

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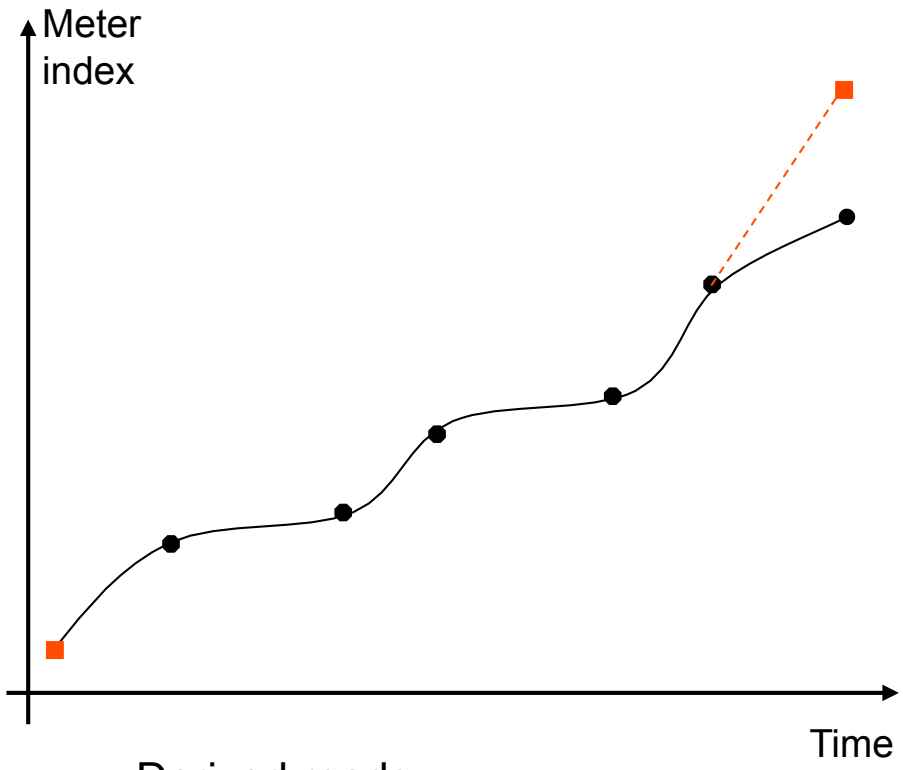
Periodic Reconciliation

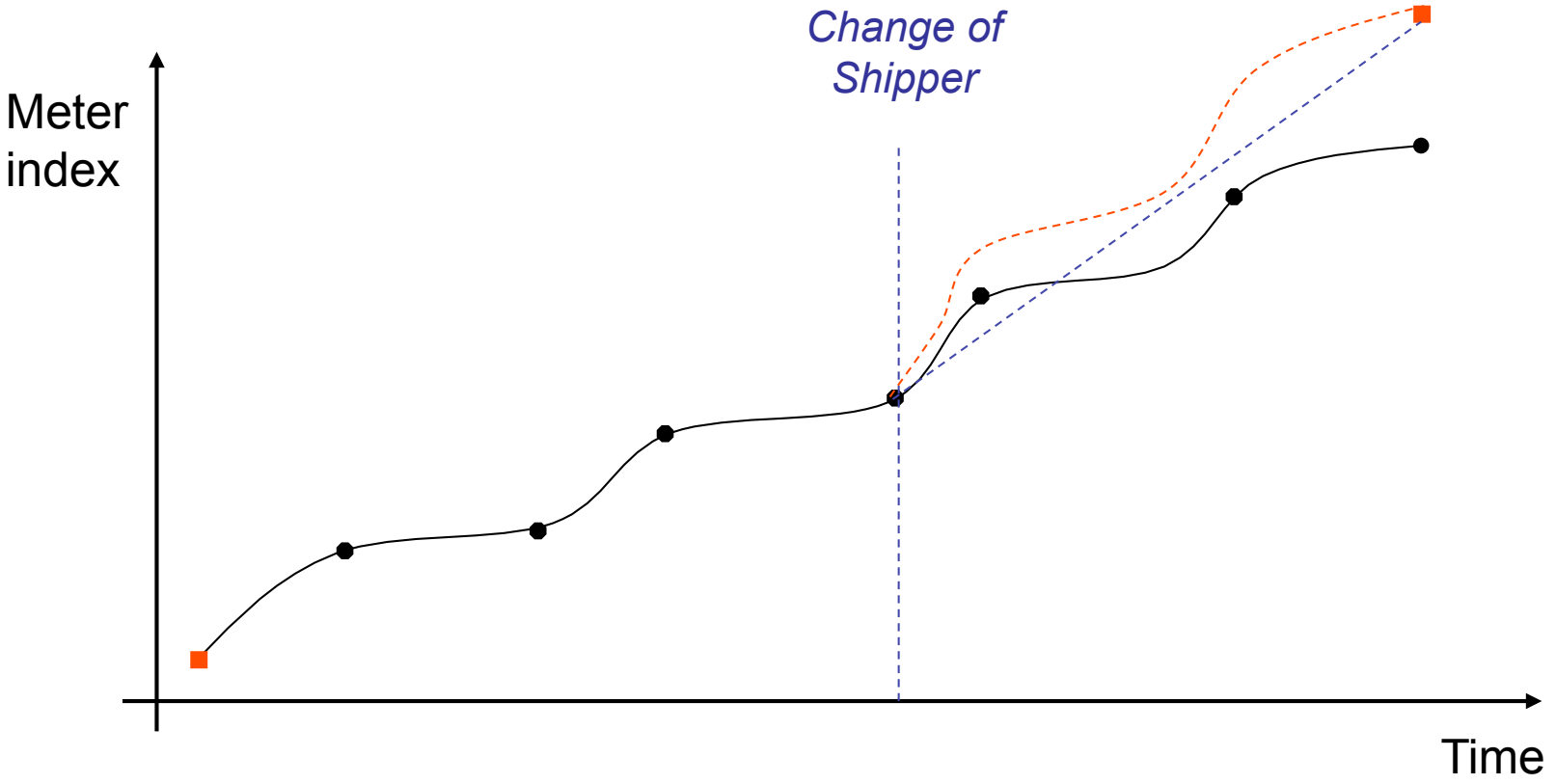
- Where monthly reads are obtained from AMR equipment and submitted for Rec purposes – resynchs will still be required
- Are different approaches required for periodic rec?
  - Pro-rata
  - Straight line
  - Last day

Treatment of Resynchs – Periodic Rec

- ALTERNATIVE 1 – Last Period method – additional energy all attributed to final rec period
  - Straight line basis in final rec period
  - Simpler to calculate and understand
  - Takes no account of usage patterns/allocations
  - Bias towards recent prices
  - Similar to current NDM Treatment



Change of Shipper During Period



- Current Treatment
  - Drift only attributed to incoming Shipper
  - Any change to this rule?

- Derived reads
- Eyeball reads