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Project Nexus Workgroup Meter Read Validation

10th February 2015

Background

- The meter read validation principles were developed under ‘The Settlement’ BRD and formed part of Modification 0432.
- Concerns have been raised that the read validation tolerances may not be appropriate, particularly for Smaller Supply Points
- Analysis has been carried out by both British Gas and e-on on the tolerances proposed which has highlighted some issues with the current proposed tolerances
- As a result of this analysis Xoserve have carried out further analysis on both NDM and DM Supply Meter Points
- Agreement gained at the December PN UNC on the bandings and tolerances, which is shown on the following slides

Impact of Changing the Validation

- The validations were developed at PN UNC using a % of the AQ / SOQ to validate the read
- Recommendation that for Meter Points with an AQ of less than 20,000 kWh the validation should be based on kWh not % of the AQ / SOQ
- This will require a change request as this is a change in the design
 - changing the % values and the AQ bandings does not impact design as these were always a parameterised value
- UKLink Programme have carried out an impact assessment on the impact this change will have to design & testing
- The outcome is the change CAN NOT be delivered for Go Live
- This change will need to be implemented into a later release if still required

Tolerances being Delivered for DM Supply Meter Points (Classes 1 & 2)

Tolerances for a daily read received following an actual read

Lower AQ band (kWh)	Upper AQ band (kWh)	Tolerances where read will be accepted	Tolerances where a Read Accepted if submitted with an Override Flag (Inner Tolerance)	'Market Breaker' tolerance where Read Rejected (Outer Tolerance)
1	20,000	0% - X% of SOQ	X% - X% of SOQ	=> X% of SOQ
20,001	73,200	0% - 300% of SOQ	301% - 599% of SOQ	=> 600% of SOQ
73,201	732,000	0% - 250% of SOQ	251% - 549% of SOQ	=> 550% of SOQ
732,001	2,196,000	0% - 200% of SOQ	201% - 499% of SOQ	=> 500% of SOQ
2,196,001	29,300,000	0% - 150% of SOQ	151% - 449% of SOQ	=> 450% of SOQ
29,300,001	58,600,000	0% - 100% of SOQ	101% - 399% of SOQ	=> 400% of SOQ
58,600,001	and above	0% - 100% of SOQ	101% - 349% of SOQ	=> 350% of SOQ

Tolerances being Delivered for NDM Supply Meter Points (Classes 3 & 4)

Tolerances for a periodic read received following an actual read

Lower AQ band (kWh)	Upper AQ band (kWh)	Tolerances where read will be accepted	Tolerances where a Read Accepted if submitted with an Override Flag (Inner Tolerance)	'Market Breaker' tolerance where Read Rejected (Outer Tolerance)
1	20,000	0% - X% of AQ/365 x no. of days	X% - X% of AQ/365 x no. of days	=>X% of AQ/365 x no. of days
20,001	30,000	0% - 300% of AQ/365 x no. of days	301% - 599% of AQ/365 x no. of days	=> 600% of AQ/365 x no. of days
30,001	73,200	0% - 250% of AQ/365 x no. of days	251% - 549% of AQ/365 x no. of days	=> 550% of AQ/365 x no. of days
73,201	732,000	0% - 200% of AQ/365 x no. of days	201% - 499% of AQ/365 x no. of days	=> 500% of AQ/365 x no. of days
732,001	2,196,000	0% - 150% of AQ/365 x no. of days	151% - 449% of AQ/365 x no. of days	=> 450% of AQ/365 x no. of days
2,196,001	29,300,000	0% - 100% of AQ/365 x no. of days	101% - 399% of AQ/365 x no. of days	=> 400% of AQ/365 x no. of days
29,300,001	58,600,000	0% - 100% of AQ/365 x no. of days	101% - 349% of AQ/365 x no. of days	=> 350% of AQ/365 x no. of days
58,600,001	and above	0% - 300% of AQ/365 x no. of days	301% - 599% of AQ/365 x no. of days	=> 600% of AQ/365 x no. of days

Tolerances Agreed at PN UNC for DM Supply Meter Points (Classes 1 & 2)

Tolerances for a daily read received following an actual read

Lower AQ band (kWh)	Upper AQ band (kWh)	Tolerances where read will be accepted	Tolerances where a Read Accepted if submitted with an Override Flag (Inner Tolerance)	'Market Breaker' tolerance where Read Rejected (Outer Tolerance)
1	20,000	0 – 20,000 kWh	20,001 kWh – 39,999kWh	=> 40,000 kWh
20,001	73,200	0% - 300% of SOQ	301% - 599% of SOQ	=> 600% of SOQ
73,201	732,000	0% - 250% of SOQ	251% - 549% of SOQ	=> 550% of SOQ
732,001	2,196,000	0% - 200% of SOQ	201% - 499% of SOQ	=> 500% of SOQ
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58,600,001	and above	0% - 100% of SOQ	101% - 349% of SOQ	=> 350% of SOQ

Tolerances Agreed at PN UNC for NDM Supply Meter Points (Classes 3 & 4)

Tolerances for a periodic read received following an actual read

Lower AQ band (kWh)	Upper AQ band (kWh)	Tolerances where read will be accepted	Tolerances where a Read Accepted if submitted with an Override Flag (Inner Tolerance)	'Market Breaker' tolerance where Read Rejected (Outer Tolerance)
1	20,000	0 – 20,000 kWh	20,001 kWh – 39,999kWh	=> 40,000 kWh
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73,201	732,000	0% - 250% of AQ/365 x no. of days	251% - 549% of AQ/365 x no. of days	=> 550% of AQ/365 x no. of days
732,001	2,196,000	0% - 200% of AQ/365 x no. of days	201% - 499% of AQ/365 x no. of days	=> 500% of AQ/365 x no. of days
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58,600,001	and above	0% - 100% of AQ/365 x no. of days	101% - 349% of AQ/365 x no. of days	=> 350% of AQ/365 x no. of days

Next Steps

- Agree the tolerances to be applied for Meter Points in AQ Band 1 to 20,000 kWh
- Review & approve the revised tolerances at the February 2015 meeting
- Raise a change request to implement the revised tolerances
- Update UNC Validation Rules for the tolerances being delivered for review at PN UNC and submit for approval