Data Cleansing Workgroup

16th July 2015

Emma Lyndon / Steve Deery

Agenda

- **Actions From Last Meeting**

- **Monthly Progress**

- **Correction Factors Of 0.0**

- **Potentially Incorrect Correction Factors**

- **CSEPs Reconciliation Statistics**

- **De-aggregations (MOD 0428)**

- **AQ Update**

- **UKLP Data Activities**

- **Time Line & Priorities**

- **AOB**

Actions From Last Meeting

Actions From Last Meeting (1)

Action Ref	Detail	Owner	Xoserve Update	Status
23.04.1	Investigate the impact of not having reads for SAP for 2,3,4yr populations	Xoserve	No decision on what will happen to these as of yet. As soon as a decision is made, we will update you.	C/Fwd
18.06.1	Provide o/s LPG dataset to affected shippers	Xoserve	Sent via Shipper Engagement Team on 22nd June	Closed
18.06.2	Investigate/resolve remaining LPG population	Shippers	Ongoing	Closed
18.06.3	(Data Topic Breakdown) Provide o/s population of Emergency Contact Type MPRNs to affected shippers	Xoserve	Sent via Shipper Engagement Team on 23rd June	Closed
18.06.4	(Data Topic Breakdown) Provide o/s population ELA (Electronic Address) MPRNs to affected shippers	Xoserve	Sent via Shipper Engagement Team on 23rd June	Closed
18.06.5	(Newly Added) Analyse RGMA rejections for Confirmed No Asset issues (Newly Added population)	Shippers	Ongoing	Closed
18.06.6	(Newly Added) Group to advise of any topics that they wish to focus on in forthcoming meetings	Shippers	Ongoing	Closed
18.06.7	(CFs 0) Provide updated CFs 0 datasets to the group	Xoserve	Sent via Shipper Engagement Team on 22nd June	Closed
18.06.8	(CFs 0) Group to update CFs 0 to appropriate CF where applicable	Shippers	Ongoing	Closed

Actions From Last Meeting (2)

Action Ref	Detail	Owner	Xoserve Update	Status
18.06.9	(% Complete) Remove % Complete slide from slide deck for future meetings	Xoserve	Item removed from future slide decks	Closed
18.06.10	(CSEPs) Include previous month's stats to allow comparison of progress	Xoserve	Previous month's stats will be included going forward	Closed
18.06.11	(CSEPs) Provide list of iGT short codes and names to workgroup attendees	Xoserve	Sent via Shipper Engagement Team on 22nd June	Closed
18.06.12	(MOD0428) – Investigate/advise when final charging document will be available	Xoserve	The Agency Charging Statement has been published for MOD 0428 and can be found here:- http://www.gasgovernance.co.uk/sites/default/files/AgencyChargingStatement_Approved%2027May15_0.pdf	Closed
18.06.13	(AQ 1) Investigate duplicated sentence on slide 33	Xoserve	Slide 33, 2nd line has been amended to "It appears that the meter has been exchanged & details of the new meter not loaded to UKLink"	Closed
18.06.14	(AQ 1) Advise when/where next AQ Forum is to be held	Xoserve	The next AQ Forums are as follows:- 27th August 2015 (teleconference) 26th November 2015 (31 Homer Rd	Closed
18.06.15	Provide update to DC workgroup following PNUNC discussions on proposed iGT Transformation rules	Xoserve	Will be shared in next month's meeting	Closed

Monthly Progress

Monthly Progress

Topic Area	Current O/S	Newly Added In Last Month	Progress	% Complete	
Correction Factors of 0.0	22	4	221	91%	⬇
Potentially Incorrect C/F	14,148	293	15,483	52%	⬇
No Reads >4yrs	46,863	1,144	42,773	49%	⬆
No Reads >3yrs	47,583	732	43,022	47%	⬇
No Reads >2yrs	158,510	0	131,464	45%	➡
LPG Sites	6	0	33	85%	➡
Confirmed No Asset	26,718	2,219	37,250	58%	⬇
Read Factors/Units	1,296	16	2,431	65%	➡
Invalid Meter Models	4,278	0	2,044	33%	⬆
Totals	302,460	4,405	456,288	60%	➡

Data Topic Breakdown

Topic Area	Current O/S	Newly Added In Last Month	Progress
MP CA	31,567	0	31,895
MP CL	2,923	0	4,108
Potentially Incorrect C/F >731,999	3,698	32	4,052
Potentially Incorrect C/F <732,000	10,450	261	11,431
Electronic Address (ELA)	6	0	15
Post Code to Exit Zone	9,587	0	369
Emergency Contact Type	18	0	17,766

Monthly Progress – 'Newly Added' (1)

Topic Area	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15
Correction Factors of 0.0	16	0	20	0	1	6	21	16	1	0	0	4
Potentially Incorrect C/F	82	82	4,080	422	1,184	269	523	181	0	0	106	293
No Reads >4years	1,401	1,236	2,068	342	406	466	1,062	1,093	1,020	416	1,033	1,144
No Reads >3 years	4,932	5,273	5,117	989	3,847	1,988	3,596	3,265	3,384	2,087	831	732
No Reads >2years	17,551	25,828	11,043	7,670	14,930	13,105	7,755	10,980	6,395	1,745	1,062	0
LPG Sites	0	0	0	0	0	0	0	0	0	0	0	0
Confirmed No Asset	2,552	509	1,933	1,465	818	140	581	92	0	129	719	2,219
Read Factors/Units	10	19	0	0	25	18	33	3	10	0	0	16

■ >Previous Month

■ <>Previous Month

■ <Previous Month

Monthly Progress – 'Newly Added' (2)

Topic Area	Aug'14-Jan'15		Feb'15-Jul'15	
	Total Added	Average Added Per Month	Total Added	Average Added Per Month
Correction Factors of 0.0	43	7	21	4
Potentially Incorrect C/F	6,119	1,020	580	97
No Reads >4years	5,919	987	4,706	784
No Reads >3 years	22,146	3,691	10,299	1,717
No Reads >2years	90,127	15,021	20,182	3,364
LPG Sites	0	0	0	0
Confirmed No Asset	7,417	1,236	3,159	527
Read Factors/Units	72	12	29	5

>Previous 6Mths

<>Previous 6Mths

<Previous 6Mths

Correction Factors Of 0.0

Correction Factors Of 0.0

The latest position is as follows:-

19 remain in the 0-6mths category.
(7 more than last month)

2 remain in the 6-12mths category.
(1 less than last month)

1 remains in the >12mths category.
(2 less than last month)

Overall population has increased
By 4 this month.

	0-6 Months	6 -12 Months	> 12 Months	Sum:
Shipper 02	5	0	0	5
Shipper 04	4	0	0	4
Shipper 05	1	0	0	1
Shipper 07	4	0	0	4
Shipper 09	0	0	1	1
Shipper 17	3	0	0	3
Shipper 34	2	2	0	4
Sum:	19	2	1	22

	0-6 Months	6 -12 Months	> 12 Months	Sum:
May'15 Sum	12	3	3	18

	0-6 Months	6 -12 Months	> 12 Months	Sum:
Movement	7	1	2	4

Potentially Incorrect Correction Factors

Potentially Incorrect Correction Factors (1)

Month	Topic Area	Current O/S	Newly Added In Last Month	Progress
Jun'15	Potentially Incorrect C/F <732,000	10,809	94	10,811
	Potentially Incorrect C/F >731,999	3,672	12	4,036
Jul'15	Potentially Incorrect C/F <732,000	10,450	251	11,431
	Potentially Incorrect C/F >731,999	3,698	32	4,052
Progress	Potentially Incorrect C/F <732,000	359	-157	620
	Potentially Incorrect C/F >731,999	-26	-20	16

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Potentially Incorrect Correction Factors (2)

Tolerances Being Delivered for DM Supply meter Points (Classes 1 and 2)

Lower AQ band	Upper AQ Band	Count
1	20,000	18
20,,001	73,200	0
73,201	732,000	21
732,001	2,196,000	0
2,196,001	29,300,000	1
29,300,001	58,600,000	3
58,600,001	and above	1
	Total	44

Tolerances Being Delivered for NDM Supply meter Points (Classes 3 and 4)

Lower AQ band	Upper AQ Band	Count
1	20,000	1,889
20,,001	30,000	364
30,001	73,200	918
73,201	732,000	7,114
732,001	2,196,000	3,055
2,196,001	29,300,000	624
29,300,001	58,600,000	13
58,600,001	and above	0
	Total	13,977

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CSEPs Reconciliation Statistics

CSEPs Reconciliation – High Level Process

You submit your meter reads to the iGTs

The iGT calculates a volume and sends this in a CRI file to the CSEPs team

The CSEPs team import the CRI file into the CSEP database

A response file is automatically sent to the iGTs which shows whether the records have been accepted or rejected.

The accepted records will go onto the next CSEP Reconciliation invoice.

NOTE: On the 7th calendar day the latest CV, SAP and Energy factors are imported into the database therefore the files are imported into the database from the 8th calendar day. The last day for importing the files is the 20th calendar day, from the 21st onwards we prepare the CSEP Reconciliation invoice.

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CSEPs Reconciliation Updates (1)

End of June 2015:

4,818 live LMNs
- – **3,129 (64.94%)** with some reconciliation activities
- – **1,689 (35.06%)** without any reconciliation activities

5,573 closed LMNs
- – **4,085 (73.30%)** with some reconciliation activities
- – **1,488 (26.70%)** without any reconciliation activities

A total of **3,177 (30.57%)** LMNs without reconciliation activities

A total of **7,214 (69.43%)** LMNs with some reconciliation activities

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CSEPs Reconciliation Updates (2)

	April		May		June	
	Total	**%**	**Total**	**%**	**Total**	**%**
Live LMNs	4787		4537		4818	
Some Rec Activity	2902	60.62%	2544	56.07%	3129	64.94%
No Rec Activity	1885	39.38%	1993	43.93%	1689	35.06%
Closed LMNs	5473		5547		5573	
Some Rec Activity	3950	72.17%	3991	71.95%	4085	73.30%
No Rec Activity	1523	27.83%	1556	28.05%	1488	26.70%
Total LMNs with Some Rec Activity	6852	33.22%	6535	35.10%	7214	30.57%
Total LMNs with No Rec Avity	3408	66.78%	3549	64.81%	3177	69.43%

CSEPs Reconciliation Updates (3)

Live LMNs								
April			May			June		
IGT Count	Activity	No Activity	Count	Activity	No Activity	Count	Activity	No Activity
A 251	111	140	254	129	125	251	143	108
B 1,114	691	423	987	546	441	1,112	735	377
C 15	5	10	14	3	11	15	5	10
D 1,704	1,257	447	1,532	1,135	397	1,714	1,296	418
E 50	39	11	53	37	16	50	40	10
F 474	130	344	666	104	562	467	183	284
G 675	394	281	556	342	214	700	419	281
H 3	2	1	4	4	0	3	2	1
J 80	10	70	79	5	74	80	13	67
M 421	263	158	392	239	153	426	293	133
Total 4,787	**2,902**	**1,885**	**4,537**	**2,544**	**1,993**	**4,818**	**3,129**	**1,689**

Closed LMNs								
April			May			June		
IGT Count	Activity	No Activity	Count	Activity	No Activity	Count	Activity	No Activity
A 1,019	927	92	1,156	1,084	72	1,027	937	90
B 849	471	378	813	429	384	873	496	377
C 11	5	6	14	7	7	11	5	6
D 1,015	789	226	1,015	746	269	1,053	831	222
E 101	97	4	118	108	10	102	98	4
F 1,126	508	618	1,189	560	629	1,134	534	600
G 603	511	92	555	450	105	619	534	85
H 5	5	0	2	2	0	5	5	0
J 29	14	15	16	11	5	29	14	15
M 715	623	92	669	594	75	720	631	89
Total 5,473	**3,950**	**1,523**	**5,547**	**3,991**	**1,556**	**5,573**	**4,085**	**1,488**

CSEPs Reconciliation Updates (4)

**Number of live LMNs without any Reconciliation**
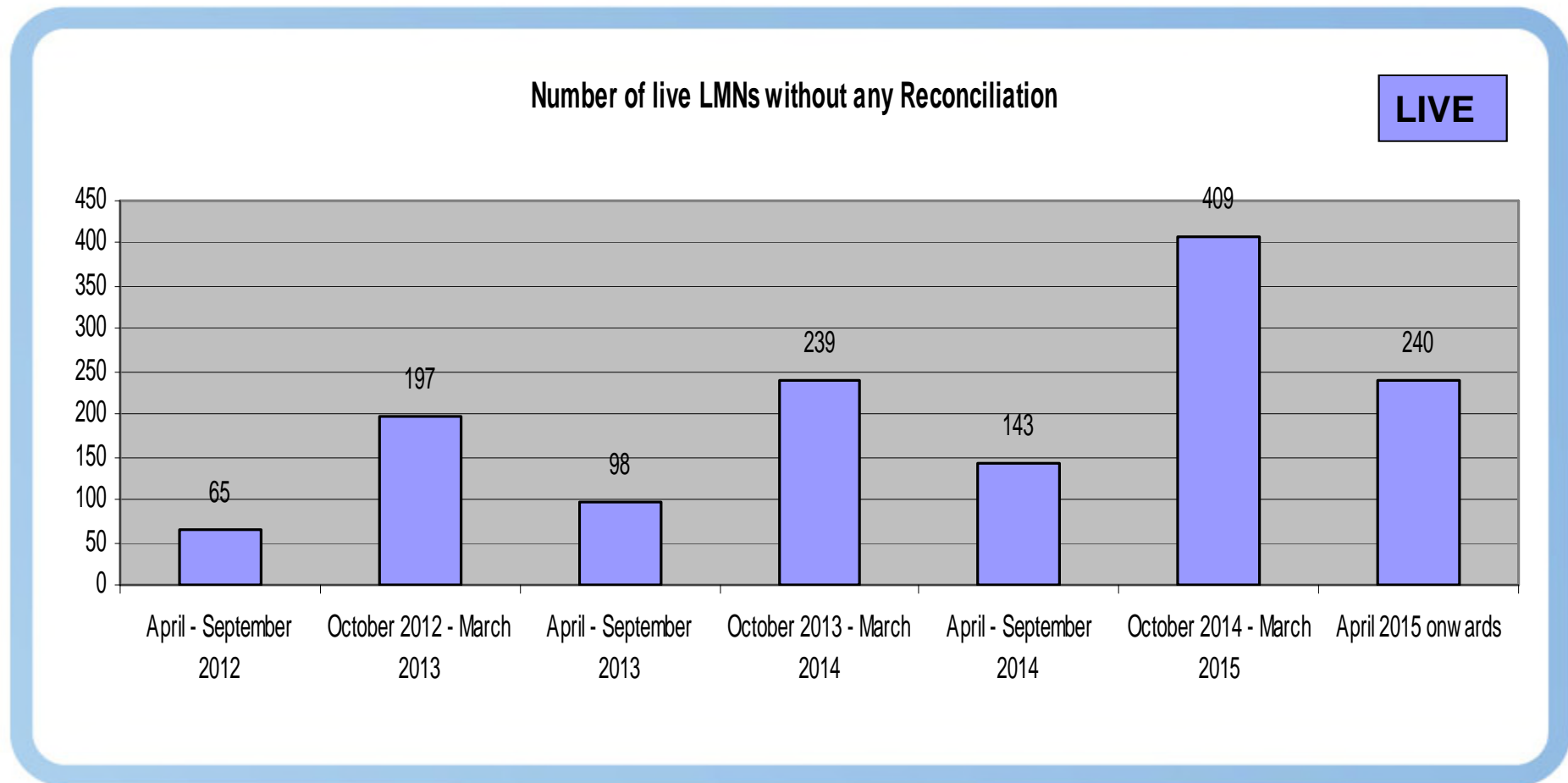
LIVE

Breakdown of when LMNs went live in 6 month periods but are yet to receive any reconciliation

CSEPs Reconciliation Updates (5)

Number of closed LMNs without any Reconciliation
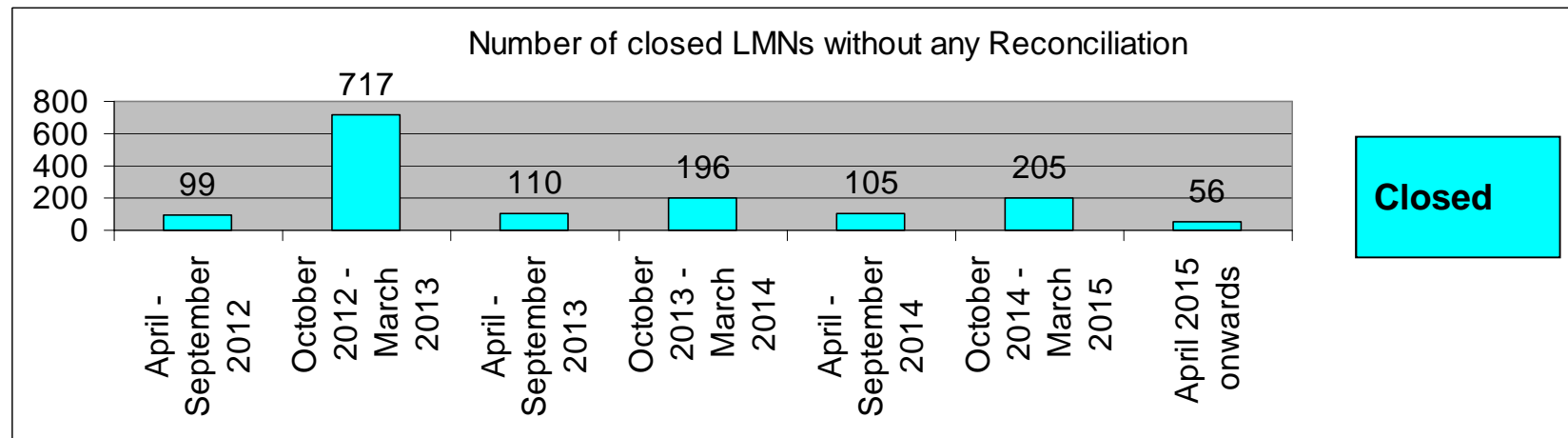
Closed

Breakdown of when LMNs closed in 6 month periods but are yet to receive any reconciliation

CSEPs Reconciliation Updates (5)

No of Reconciliations periods processed in the last 12 months
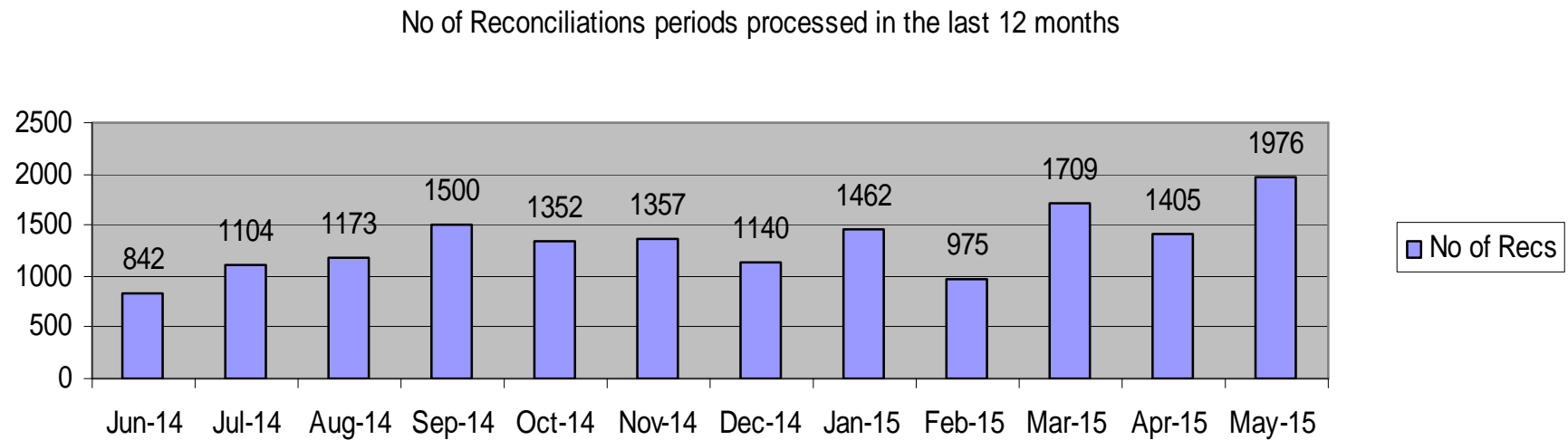
Total reconciliation periods processed 15,995

CSEPs Reconciliation Updates (6)

Shipper Breakdown of processed reconciliations

SSC	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Total
A	10	12	3	2	12	3	5	0	3	3	5	9	67
B	15	23	15	18	20	16	16	25	18	82	76	29	353
C	1	0	1	1	1	1	0	0	40	0	4	10	59
D	6	9	15	13	9	7	14	22	19	24	20	19	177
E	4	1	1	4	1	2	4	9	5	4	84	14	133
F	85	182	100	61	74	54	82	89	82	92	37	153	1091
G	155	269	219	376	356	482	425	451	175	228	0	394	3530
H	0	4	2	2	2	1	1	2	0	0	0	1	15
I	147	174	151	224	150	168	192	184	179	165	296	593	2623
J	1	3	1	2	1	2	1	0	2	35	26	13	87
K	5	10	14	9	7	15	6	3	8	11	12	7	107
L	0	0	0	0	0	0	2	0	0	0	0	0	2
M	60	28	28	126	58	66	29	95	13	32	69	26	630
N	1	1	2	2	3	1	5	7	5	9	13	6	55
P	1	0	1	0	0	1	1	2	1	1	3	3	14
Q	114	185	421	201	287	152	67	202	5	0	5	243	1882
R	3	7	2	21	147	140	91	129	176	60	195	121	1092
S	39	33	41	46	14	31	30	23	39	333	115	105	849
T	182	147	144	280	109	178	156	199	191	596	426	196	2804
V	0	0	0		0	1	0	0	0	0	1	1	3
W	0	0	0	21	32	0	0	1	0	0	0	4	58
Y	0	1	0		0	1	0	0	0	2	2	1	7
Z	0	0	0		0	0	0	0	0	0	0	0	0
AA	3	0	2	82	56	24	0	2	0	1	1	8	179
AB	0	0	0	6	9	0	0	0	0	0	0	1	16
AD	8	11	9	2	1	10	9	13	11	24	9	12	119
AF	2	4	1	1	3	1	3	1	1	4	4	5	30
AG	0	0	0	0	0	0	0	2	2	2	2	2	10
AJ	0	0	0	0	0	0	1	1	0	1	0	0	3
Totals	842	1104	1173	1500	1352	1357	1140	1462	975	1709	1405	1976	15995

Last 12 months Total Shipper Processed Reconciliation 15,995

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De-Aggregations
(MOD 0428)

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Progress To Date

In October '14 (6mths after go live), a snapshot of progress was taken.

This snapshot contained 28,355 aggregated supply points that required de-aggregation.

Since January '15 this snapshot is now run monthly and the latest figures are below:-

	Oct'14	Jan'15	Feb'15	Mar'15	Apr'15	May'15	Jun'15
SP Count	28,355	27,942	27,792	27,448	25,651	23,196	16,875
Progress	N/A	413	150	344	1,797	2,455	6,321

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Post close out process

Final portfolios sent out w/c 6th July

These portfolios prompted shipper reconciliation and further disaggregation activity after the deadline

The current position as at 14th July c2,700 MPRNs still recorded as multi meter supply points

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AQ Update

AQs Of 1 – Threshold Crossers

Total Meter Points: 2,714

Xoserve Proposed AQ: 2,591,806,398 kWh

Total Amended AQ: 2,052,388,427 kWh

Total Amendments Received: 496 *(18% of Total Meter Points)*

AQ Decreasing: 458

AQ Increasing: 38

AQ1 Filtered AQ1 Population

Total Consuming Meter Points: 13,196

Xoserve Proposed AQ: 13,196 kWh

Total Amended AQ: 31,723,161 kWh

Total Amendments Received: 1,044

(8% of Total Consuming Meter Points)*all being increases*

UKLP Data Activities

Background

A presentation was provided at the UK Link Industry Engagement Forum (UKLIEF) on 19th June 2015

The supporting slides were published on the Xoserve website

These additional slides are to explain the context around the Data Update slides 12 -15

These slides were presented with regards to the data preparation activities for the trial runs to submit the data to the Market Trials environment

The slides use the phrase "Data Quality Defects" which was not clearly defined

In all cases the "defect" is a measure against the target system not the current systems or the current data used within those systems

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These additional slides are to explain the context around data submission trial runs

The industry has fed back that the term "defect" is confusing with regard to its use for GT and iGT data

Data Quality Defect Status	GT	iGT	All / Other	Total	
Analysis	8	21	1	30	Defect identified. Analysis in progress to find solution.
Action With Xoserve	6	16	0	22	Datafix to be applied / transformation rule being determined
Action With Industry	10	17	0	27	Items notified to industry which requires industry cleanse
Totals	24	54	1	79	
Internal					
External					

Data Quality Defects

"Data Quality Defect" is an overarching term used to classify any instance where intervention (transformation or cleanse) is required, it may be:

- An issue with conformance of existing data to the new structure in the target system
- An issue of completeness of data required by the target system

In all cases the "defect" is a measure against the target system not the current systems or the data used within them

Data quality defects can arise for a variety of reasons and are not necessarily linked to deficiencies within the source data set. For example the target system may require a mandatory data item which is not needed within the source system, or may require a data item compliant with a new standard e.g. full county name rather than shortened name

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UK Link Programme target rule requirements

The new UK Link system has within it requirements for data in a certain format. As previously mentioned, differences between source and target data are referred to as "defects". This is a common term in any system development

During development Xoserve will identify a data "defect"

This is logged on a tracking system (HP Quality Centre) to ensure it is managed through to an end result

The numbers presented on slide 15 were as at that point in time and related to the preparation of data for market trials

Going forward

Xoserve will continue to track "defects" to resolution

Resolution may require support from the industry e.g. agreeing approaches etc

Data issues in the current system for which more up to date data is required will continue to be managed under the Data Cleansing Workgroup e.g. focussing on such things as meter points without reads for over 4 years etc

Further presentation will be provided at UKLIEF and the Nexus Workgroup to explain Xoserve's approach on data matters
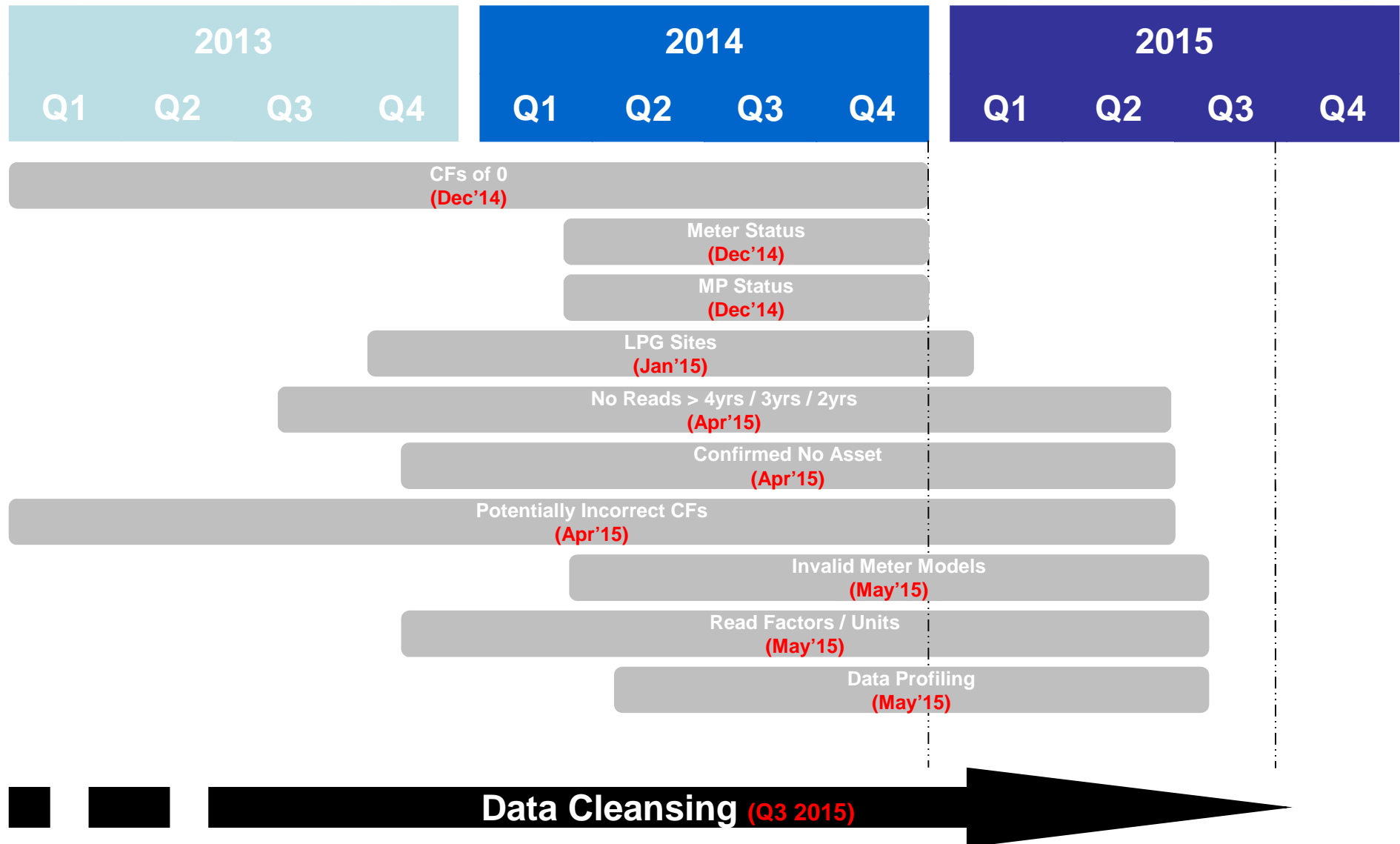
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Time Line & Priorities

Timeline

2013				2014				2015			
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4

CFs of 0
(Dec'14)

Meter Status
(Dec'14)

MP Status
(Dec'14)

LPG Sites
(Jan'15)

No Reads > 4yrs / 3yrs / 2yrs
(Apr'15)

Confirmed No Asset
(Apr'15)

Potentially Incorrect CFs
(Apr'15)

Invalid Meter Models
(May'15)

Read Factors / Units
(May'15)

Data Profiling
(May'15)

Data Cleansing (Q3 2015)

AOB (1)

Monthly Low Level Portfolio Reports

Shipper Engagement team would like to protect any Data Cleansing Portfolios that they send out on our behalf with a password. They have proposed to use the existing Castle Codes as these are already used for MOD428 reports and it prevents you from having any more additional passwords.

Future Catering Requirements

As our meetings only last approximately 2-2½ hrs, would you prefer to have breakfast available (Sausage/Bacon/Pastries, etc.) on your arrival or would you prefer to continue with the lunchtime buffet arrangements? Based on feedback, we will arrange accordingly.

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Next Scheduled Meeting (Pending group availability for holiday period): –

10.30am Thursday 20th August 2015,
Conference Room 5,
31 Homer Road, B91 3LT

Any comments to:-

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DC Web Pages http://www.xoserve.com/index.php/our-services/ie-data-cleansing/

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