

respect > commitment > teamwork

UKLP – Gemini Consequential Changes (GCC) Workstream

External Stakeholder Presentation 26/11/2014

- The UKLink Programme is split into multiple Workstreams.
- The Gemini Consequential Changes (GCC) Workstream is responsible for delivering and building the consequential changes to the Gemini system that have arisen from the NEXUS Requirements.
- Gemini is the only National Grid System which is impacted by the changes.



Gemini Processes AS IS



Gemini Processes TO BE



High Level Overview of GCC

- The consequential changes that have been identified can be categorised in the following areas and are explained on the subsequent slides:
 - Demand Attribution
 - NDM Nominations
 - NDM Allocations
 - APIs



Scope and Key Activities (1)

- Nominations Demand Attribution:
 - Create Nominations for Non-Daily Meters
 - Create DM Nomination Estimate
 - Calculate Forecast Unidentified Gas
 - Calculate Share of Unidentified Gas for Gas Nominations
- Allocations Demand Attribution:
 - Create Allocations for Non-Daily Meters
 - Calculate Actual Unidentified Gas
 - Calculate Share of Unidentified Gas for Gas Allocations
- APIs:
 - Shipper Preliminary Balance
 - View Renomination Details
 - View Renominations
 - View WCF/SF Values



Scope and Key Activities (2)

- The GCC Workstream are responsible for the following activities:
 - Management of Requirement Definitions.
 - Gemini Build and Testing outside of the UKLP (up to and including System Testing).
 - Workstream Planning.
 - Interfacing with other current projects e.g. EU Phase 2.
 - Liaising with the UKLP Testing Workstream to integrate GCC into the mainstream UKLP System Integration Testing plan.
 - Supporting the UKLink Programme for testing stages and successive stages.



Gas Nominations and Allocations End to End Process

- The following slides captures the end to end process for the Gas Nominations and Allocations.
- The end to end process diagrams are illustrated using the below key:

An information only call out.

Denotes a change in the process.

A BRD reference.



Calculate NDM Output Nominations



9

Validate DM Output Nominations



Calculate Forecast Unidentified Gas



Calculate Energy Allocations



12

Calculate Unidentified Gas Allocation



Gemini Screens

- The subsequent slides depict the following new and amended Gemini Screens*:
 - DM Nomination Estimation
 - Shipper Balance
 - Allocation by Meter ID
 - Shipper Unidentified Gas (UIG) Share

* Please note that these screens are subject to changes as the Workstream progresses



DM Nomination Estimation

essages - 0 🛛 🌘		Meter Details Nominations	OCM Measu	rements Allocations	Invoice 1	MS			
	User Name: IONT1301	BA: TRA 👻		User Role:	GMS013 👻				
INI E	nvironment: Prototype	You are here : Home	> Nominations > Nomin	ations	Nominat	ons			
View Nominations									
view norminations									
				Rate Schedule*: Exit	•		Service	Id*: BG-SS-000	001
Eff Start D	ate*: 02-Oct-2015 Eff End	Date*: 20-Oct-2015		View By*: Gas Tra	des Excluded 👻	Red	uested Sta	tus:Select	•
Se	arch:Select V By				_				
						Query	Generate	Report	Clear
Activity Number	SF Meter Id	Requester Energy(kWh)	l Status	Scheduled Energy(kWh)	l Status	Reason Code	Opp Flow	Actions	
000001	10000001	31,811,000	A	31,811,000	А		N	A V	
000002	10000002	11,078,000	А	11,078,000	А		N	AV	
000003	10000003	0	N	0	N		N	AV	
	10000001	51,190,328	E	0	А		N	AV	
000004	1000004							AV	
000004	10000004	3,743,056	N	0	N		N		
000004 000005 000006	10000005	3,743,056	N	0	N		N	AV	
000004 000005 000006	10000004	3,743,056 9,411,111 38.091,533	N N	0 0	N		N N		
000004 000005 000006 000007	10000004 10000005 100000005 100000007 100000008	3,743,056 9,411,111 38,091,533	N N N	0 0 0	N N N		N N N		
000004 000005 000006 000007 000008	10000004 100000005 100000006 100000007 100000008	3,743,056 9,411,111 38,091,533 0	N N N	0 0 0	N N N		N N N		
000004 000005 000006 000007 000008 000009	10000004 100000005 100000005 100000007 100000008 100000009	3,743,056 9,411,111 38,091,533 0 0	N N N N	0 0 0 0	N N N		N N N N	AV AV AV	
000004 000005 000006 000007 000008 000009	10000004 10000005 100000005 100000007 100000008 100000009	3,743,056 9,411,111 38,091,533 0 0	N N N N	0 0 0 0	N N N		N N N N	AV AV AV	

Shipper Balance

C C C C C C C C C C C C C C C C C C C	INI	STEEL	-0-			S	mell Gas	Call free on 080 all calls are recorded and	10 111 999	B.P.		2
Contract	Product	Trade	Deal	Constraints	Meter Details	Nominations	OCM	Measurements	Allocations	Invoice	IMS	
Message	es - 0	User Nam	e: ION	T1301	E	BA: TRA 👻			User Role: I	GMS013 👻		
GEMIN	[E	nvironment	: Prototy	pe	You are here : H	ome > Nominations	> Balance	> Business Associate B	alance	Nomina	ations	S

		Available			Selecte	d
as Day*: 01-Oct-2015	ABC - ABC - ABC G/	AS SHIP LTD		Add ABC - ABC	- ABC GAS SHIP LTC)
						Query
	R	equested (kWh)		Se	heduled (kWh)	
iput Balance(kWh)						
Transport	Input 547,66	9,805			547,669,805	
Storage	Input	0			0	
Trade	s Buy 272,98	8,474			272,988,474	
OCM NBP	Buys 59,84	5,104			59,845,104	i
OCM Physical/Elex	ibility	0	0		0	
Total I	nput: 880.50	3.383			880.503.383	
utput Balance(kWh)		,			,,	
DMCs/DMAs/Shrir	1kage 240,28	7,490			240,287,490	1
Non-Daily Me	tered 280,80	1,498			280,801,498	
Storage O	utput 58,34	8,880			58,348,880	i
Total Unidentified	d Gas 280,80	1,498			280,801,498	-
	- 0-11 - 200 22	4 700			200 224 202	
				LDZ n	oms Trade Su	Immary Cano

11-Nov-2014 09:17:01

🝋 Computer | Protect

Allocation by Meter ID

ି G	emini	ged			Sm	ell Gas ? Ca	all free on 0800 rails are recorded and m	111 999 ay be monitored				•
Cont	tract Product	Trade	Deal Constraints	Meter Details N	ominations	OCM Me	asurements /	Allocations Invoice	IMS			
	Messages - 0	User Name	2: IONT1301	BA:	rra 👻			User Role: IGMS013 V				
GEM		rironment:	Prototype	You are here : Ho	me > Allocations	> Allocation D	etails > By Meter ID	Alloc	ations			
	Allocations By Meter ID											- 1
	Gas Da	y From*:	01-Oct-2015	Gas Day	To*: 01-Oct-201	5		Input / Output : Outp	ut 👻			
		Shipper:	ABC-ABC -ABC GAS	i lable SHIPPING SERVICES I		Add Remove	ABC-ABC	Selected -ABC GAS SHIPPING SERVICE	3			
	Met	er Type :	ST-SUB TERMINAL DF-DAILY METERED UG-UNIDENTIFIED	AGGREGATE FIRM		Add Remove	UG-UNID	Selected ENTIFIED GAS	•			E
	м	eter ID :	ABCWM1UG L	🔘 Agg. By Date	View By	y Date				Query Down	load Clea	-
	Gas Day		Meter ID	Meter Type	I/O		BA	Nominations (kwh)	All (ocation kwh)	Opp Flow	
	01-Oct-2015		ABCWM1UG	UG	0	ABC	Total:	34	56	35,004	N Cance	
9:23:57								j 🌉 Co	mputer Protecte	d Mode: Off	•	105% -

Shipper UIG Share

sages - 0	de Deal Constraints	5 Meter Details Nominatio	ns OCM Mea	User Roley TCM	Invoice IMS	
INT Environ	ment: Prototype	You are here : Home > Allocations > Shi	ipper Balance > Shipp	er Allocation UIG Share Report	Allocations	
Shipper Allocation UIG Share Report						
Shipper*: A	BC	Gas Day*: 01-Oct-2015	0	LDZ*: EA-EASTERN LDZ	✓ Exit Zone:	EA1 -EASTERN 1 EZ
Meter Type	Shipper	Exit Zone	EUC	Class	UIG Share Factor	UIG Share
DC	ABC	EA1	EA:E1509B	Class 1	1	43,592
DF	ABC	EA1	EA:E1508B	Class 2	1	48,390
DF	ABC	EA1	EA:E1507B	Class 2	1	56,247
DF	ABC	EA1	EA:E1506B	Class 2	1	67,188
NA	ABC	EA1	EA:E1507B	Class 3	1	63,437
NA	ABC	EA1	EA:E1506B	Class 3	1	63,325
NA	ABC	EA1	EA:E1504B	Class 3	1	47,107
NA	ABC	EA1	EA:E1505B	Class 4	1	45,199
NA	ABC	EA1	EA:E1504B	Class 4	1	44,903
NA	ABC	EA1	EA:E1503B	Class 4	1	49,072
NA	ABC	EA1	EA:E1502B	Class 4	1	59,700
NA	ABC	EA1	EA:E1501B	Class 4	1	60,767

GCC Timeline



Testing

- The UKLP-GCC will complete several stages of testing; System Testing, System Integration Testing and User Acceptance Testing.
- GCC will form part of the UKLP Market Trials which will be facilitated by the UKLP Testing Workstream.
- The UKLP Testing Workstream are working to the following high level timelines:
 - Registration Process for Market Trials will be available in Q1 2015
 - The Market Trials Approach will be issued in Q1 2015
 - Market Trials will commence in Q2 2015



Next Steps

- We'll keep in regular contact with the Industry through already established touch points, such as the UK Link Industry Engagement Forum.
- Please direct questions to the Gemini Consequential Workstream using the following email address: <u>box.xoserve.geminichange@xoserve.com</u>



Questions



