

If you have any questions relating to this Logica Impact Assessment for P213 please email ysanne.hills@elexon.co.uk.

NETA Change Form

Title		Version No.
P213 Facilitating Microgeneration (Optional Single MPAN)		0.3
		LogicaCMG Reference
		ICR825
ELEXON Reference	Date CP Received	Date IA Issued
P213	5 th July 2007	19 th July 2007
LogicaCMG Contact Name	Baseline for Impact Assessment	
Gemini Carrington	P213.pdf P213AS10.pdf v1.0 dated 1 st June 2007 email received 5 th July 2007 detailing additional impact	
Price Breakdown		
Item description	Remarks	Price (ex VAT)
Change Specific	Proposed Modification:	
	Option 1	£ 88,376
	Option 2	£105,521
	Alternative Modification:	
	Option 1	£123,460
	Option 2	£160,807
Release Costs	Option 3	£165,425
	Proposed Modification:	
	Option 1	£ 13,311
	Option 2	£ 13,759
	Alternative Modification:	
	Option 1	£ 15,406
Option 2	£ 15,854	
Option 3	£ 15,854	
Total Price (ex VAT)	Proposed Modification:	
	Option 1	£101,687
	Option 2	£119,281
	Alternative Modification:	
	Option 1	£138,866
	Option 2	£176,661
	Option 3	£181,278
Price Tolerance		0%

Justification for Price Tolerance
N/A

Project Duration	Proposed Modification: Option 1 12 weeks Option 2 13 weeks Alternative Modification: Option 1 15 weeks Option 2 17 weeks Option 3 18 weeks
Cut Off Date for Inclusion in Specified Release (if applicable)	
N/A	

Operational Price (e.g. per annum or event) (ex VAT)	£0
Rationale	
N/A	

Annual Maintenance Price (ex VAT)	£0
Rationale	
The Annual Maintenance Price is zero under the agreement commencing on 1 January 2005.	

Validity Constraints	
<ul style="list-style-type: none"> • Price and duration assume that this change is developed in isolation and the effects of other changes are excluded. • No allowance is included for the final solution being different from the baseline. • No allowance is included for supporting Release Audit activities. Any effort will be charged at contracted T&M rates • No allowance is included for supporting ELEXON assurance activities. Any effort will be charged at contracted T&M rates • No allowance is included for End to End/Participant Testing activities. Any effort will be charged at contracted T&M rates • No allowance is included for Walkthrough activities. Any effort will be charged at contracted T&M rates • No allowance is included to support ELEXON in parallel run testing activities <p>The validity period for this assessment is 30 days and is based on the following payment schedule:</p> <ul style="list-style-type: none"> • LogicaCMG will invoice 30% on receipt of Purchase Order or authorised start of work, 30% on completion of first build phase, 30% on delivery and 10% on release of the software to the industry for live operation or 12 weeks after delivery of the software to the ELEXON Test Team, whichever is sooner. 	
Authorised Signature	Date Signed

Requirements and Solution

Brief Summary of Change

Proposed Modification P213 seeks to amend the current provisions for microgeneration to allow a single MPAN1 to be used for both Import and Export in Non Half Hourly settlement. The aim of this modification is to reduce the associated industry costs and the complexity of settlement processes for Suppliers and Supplier Agents, and thereby facilitate increased settlement of microgeneration Export. Under the Proposed Modification, the same Line Loss Factor Classes (LLFCs) would have to be assigned to Import and Export for Import/Export MPANs.

Potential Alternative Modification P213 seeks to amend the current provisions for microgeneration to allow a single MPAN to be used for both Import and Export in Non Half Hourly settlement as per the Proposed Modification, however it allow different LLFCs to be assigned to the Import and Export on the single MPAN.

Additional Impact (new to v0.2 of this assessment) - It is noted that an additional system change for SVAA and MDDM has been highlighted after the Central Systems Impact Assessment. Two validation rules relating to which TPRs can be combined into an SSC will currently prevent P213 working as intended. The rules are that:

- all of the TPRs associated with a given SSC must have switching times defined in local time (i.e. GMT Indicator='N') or GMT (i.e. GMT Indicator='Y'). These cannot be mixed; and
- all of the TPRs associated with an SSC must be in the same Teleswitch Group as that SSC (or no Teleswitch Group, if the SSC is in no Teleswitch Group). This prevents teleswitched and non-teleswitched TPRs being combined into a single SSC.

For P213 to work as intended, the validation rules that prevent mixing of clocktime with local or teleswitched with timeswitched need to be relaxed in both SVAA and MDDM for Import/Export SSCs only (i.e. SSCs with Standard Settlement Configuration Type='X').

In your impact assessment please consider the likely impact of implementing P213 in:

- November 2008 Release
- February 2009 Release
- Whether there would be any changes to the implementation costs if P213 was implemented outside a scheduled Release.

LogicaCMG's Proposed Solution

LogicaCMG's proposed solution is made up of a combination of components, each individual component is described below:

A2.1.1 - Extension to valid set to SCC Type

A third row will be added for value 'X' to the SSCT domain in the cdb_ref_values table. Also the error messages produced by the D0278 loader and the Maintain SSC & TPR screen when validating the SSC type will be changed.

A2.1.2 - New Import/Export Flag held against Measurement Requirement

The Import/Export Register Type will be added to the D0278 loader and the Maintain SSC & TPR screen.

A2.1.3 – SVAA to hold Substitution Table

The new database table will be added to the SVAA database schema.

A2.1.4 - SVAA to Use Substitution Table in Calculation of Profile Coefficients

The implementation will adopt the second of the two different options described in the Requirements Specification. (the complexity of the DPP Run logic makes the first option more expensive). Looking at each of the processes that writes or reads idf_pd_pfl_class_coeffs:

- the Daily Profile Production Run will be changed to ignore SSCs of type 'X', and so idf_pd_pfl_class_coeffs will not contain any rows for these SSCs
- the DPC report to data collectors currently reads the entire idf_pd_pfl_class_coeffs file into memory and then reformats it and writes it to the report - this needs a new procedure to produce extra records for all GSPG/PC/SSC/TPR combinations where the SSC is 'X' - it will read these from the substitution table and use the existing routine isl_find_ppccs to read the PPCCs for the substituted PC/SC/TPR from the memory structure
- the SSR Run, the Profile Report to Suppliers and the DUoS report all read idf_pd_pfl_class_coeffs into memory but they have a separate list of all GSP/PC/SSC/TPR combinations and they extra the PPCCs from the memory structure one at a time using isl_find_ppccs - these will share new code to make the substitution for SSCs of type 'X' before reading from the memory structure
- the AFYC Recalculation report will be changed so it does not attempt to calculate AFYCs for SSCs of type 'X'

A2.1.5 - SVAA to Assign Import/Export Energy to Correct Consumption Component Class

The SSR run will use the Import/Export Register Type for SSCs of type 'X' to determine which Consumption Class to allocate consumption for a Measurement Requirement to.

A2.2 - Additional Changes for Publication of Substitution Table

Options a) and c) are identical for SVAA. The new screen is shown in the attached document "P213 A2.2 Screen Shots v0.1.doc" fig 1. It allows insert, update and delete operations on the new database table. For option b) the D0278 loader is changed to read data into the new table, and the new screen as in a) and c) is also included.

Additional Impact (new to v0.2 of this assessment) – A relaxation of the validation rules that prevent mixing of clocktime with local or teleswitched with timeswitched is required in the Tele-switch Pool Market Domain Data Loader.

A2.3.1 - Extending the Substitution Table to Include LLFCs

The additional database table will be added to the SVAA database schema. The new screen in the attached document "P213 A2.2 Screen Shots v0.1.doc" fig 2 has been extended by adding a pop-up block as shown in the accompanying document - this allows insert, update and delete operations. Changing the D0278 loader is not included in the assessment of this option but in A2.3.2. The SSR run is changed so that as it reads in SPM file received from an NHHDA, where it encounters an SSC of type 'X', it will replace the LLFC using the substitution table.

A2.3.2 - Additional Change to DUoS Reporting

Currently, the DUoS report reads the SPM data into a memory structure, and then sorts it before writing it out. This will be changed so that after the memory structure is complete, all rows for SSC type 'X' will be located and for these, the PC, SSC, TPR and LLFC will be replaced using the substitution table. The sort will then result in duplicate rows for the same

supplier/GSP/PC/SSC/TPR/LLFC in consecutive locations. Such duplicates will be located and combined before the program proceeds. The change to the D0278 loader for the second new table is included in the assessment of this option.

A2.3.3 – Additional Change to Supplier Reporting

The Supplier Purchase Matrix Report works in the same way as the DUoS report described in A2.3.2 and will be changed in the same way.

Proposed Modification Solution is made up of the following combination :

- Option 1: A2.1 + A2.2a
- Option 2: A2.1 + A2.2a + A2.2b

Potential Alternative Solution is made up of the following combination :

- Option 1: A2.1 + A2.2a + A2.3.1
- Option 2: A2.1 + A2.2a + A2.2b + A2.3.1 + A2.3.2
- Option 3: A2.1 + A2.2a + A2.2b + A2.3.1 + A2.3.2 + A2.3.3

Deviation from ELEXON's Solution / Requirements

None

Operational Solution and Impact

None

Testing Strategy

Unit	X	Change Specific	X	End to End	
Module	X	Operational Acceptance		Participant Testing	
System	X	Performance		Parallel Running	
Regression		Volume		Deployment/ Backout	

Other:

Validated Assumptions

Development Assumptions:

- No changes will be made to the MDDM.

Testing Assumptions:

- D0279 and D0280 input flows (whose format may be modified under this proposal) are not loaded by SVAS.
- No performance testing of this modification proposal is required.
- Tests will only be carried out in 3 tier architecture (as per Cap Gemini's configuration).
- There will be 2 runs of all the tests, i.e. dry and main (or Pre-FAT and FAT).

Outstanding Issues

None

Changes to Service							
Services Impacted							
	BMRA	CDCA	CRA	ECVAA	SAA	TAA	SVAS/ISRA
Software							X
IDD Part 1 (Docs)							
IDD Part 1 (S'Sheet)							
IDD Part 2 (Docs)							
IDD Part 2 (S'Sheet)							
LDD							X
CPM							X
FD & UC							X
PDTS							X
OG							X
LWIs							
RTP	None						
Comms	None						
Other	None						
Nature of Documentation Changes							
<p>The following documentation will require changes to reflect the design :</p> <ul style="list-style-type: none"> • Logical Data Design • Conceptual Process Model * • Functional Definition & User Catalogue • Physical Design Technical Specification * • Operations Guide <p>* For the Additional Impact these documents will also be impacted.</p>							
Nature / Size of System Changes							
N/A							
Deployment Issues, e.g. Outage Requirements:				None			
Impact on Service Levels:				None			
Impact on System Performance:				None			
Responsibilities of ELEXON							
Within reasonable levels, ELEXON will make available appropriate staff to assist LogicaCMG during the development of this change.							

Acceptance Criteria
Release of the software to the industry for live operation or 12 weeks after delivery of the software to the ELEXON Test Team, whichever is sooner.
Any Other Information
<p>We have assumed a November 2008 target release for these costings. This means delivery under the current hardware baseline (Tru-64 and Oracle 9i) and thus would require an additional activity to port. Migrate and test the changes on the new hardware baseline (HP-UX and Oracle 10g).</p> <p>The Testing for a HP-UX and Oracle 10g environment would be a repeat run of the testing scope quoted in this assessment.</p> <p>The release elements (including OAT, Deployment Testing and deployment) shall be determined by the incumbent SVAO.</p>
Attachments
P213 Price Presentation v0.2.xls P213 Screen Shots v0.1.doc