

Application Management and Development Impact Assessment Form

Title		Version No.
Introduction of a seasonal Zonal Transmission Losses scheme		v0.1
		Logica Reference
		ICR963
ELEXON Reference	Date Received	Date Issued
CR169 - P229	11-February-2009	26-February-2009
Assessor Name	Baseline for Impact Assessment	
Gemini Carrington	CR-169 – P229.doc dated 11 th February 2009 P229 Requirements Specification v1.0.pdf dated 10 th February 2009	
Summary of Assessment		
<p>Modification P229 seeks to change the Transmission Losses arrangements in the BSC so a Transmission Loss Factor (TLF) for each BSC Season is calculated for each 'TLF Zone'. Each year TLFs for each BSC Season would be calculated for the following year using historical data. The aim is to allocate transmission loss costs across generators and demand customers on the GB transmission system such that they better reflect the source of losses.</p> <p>Logica's solution will include removing the existing P82 footnotes in the IDD Part 1, IDD Part 2, CDCA URS and CRA URS. Also a script will be created which will load, validate and verify the TLF data and log errors/warnings found.</p> <p>This change will be delivered as a patch release potentially in April 2011.</p> <p>P226 has been priced at ~£28K, Logica have kept this price low by delivering this as a light patch release and this assumes Logica are providing both the AMD and BPO service.</p>		

Requirements and Solution

Brief Summary of Change

Modification P229 seeks to change the Transmission Losses arrangements in the BSC so that Transmission Loss Factor (TLF) for each BSC Season is calculated for each 'TLF Zone'. Each year TLFs for each BSC Season would be calculated for the following year using historical data. The aim is to allocate transmission loss costs across generators and demand customers on the GB transmission system such that they better reflect the source of losses.

Logica's Proposed Solution

Logica's proposed solution is detailed below:

Please Note. This is based on the solution for P203, which is the same solution as **P198 Alt Option 1 Scripted Option 1**.

Removal of P82 Functionality

The 'removal' of P82 was limited to the addition of footnotes in the IDD Part 1, IDD Part 2, CDCA URS and CRA URS. All other documentation and software remained unchanged. Therefore to reinstate the P82 functionality will involve the following tasks:

- IDD Part 1 – remove footnote 1.
- IDD Part 2 – remove footnotes 1, 2, 3, 4, 5, 6, 10 & 11.
- CDCA URS – remove footnotes 3, 4, 5, 10, 11, 12, 13, 15 & 16.
- CRA URS – remove footnotes 4, 5, 9 & 12.
- Perform testing on CDCA 'Report Aggregated Volumes' scripts (CDCA-F029) due to the increased data scope since BETTA.

No DCRs will be created for the documentation changes – they will be changed directly in the full document release of IDD and URS. Testing with post-BETTA dataset will involve tests R2T-27, R2T-28 for data setup plus R3A-01.

Script to Load the TLF Data

A scripted approach has been assessed and this would require the following tasks:

- IDD Part 2 CRA-I029 manual interface - specify the CSV data format of the manual flow.
- CRA BPM to reflect the script loading process.
- Design and develop scripts to validate, load and verify the TLF data, and to log errors/warnings where found.
- Perform Unit Tests for the new loading process.

Logica have reviewed the treatment of offshore connections to the Transmission System in P229 and this has no impact to the solution above.

History of Solution

Logica have not seen P229 before but this change has been previously proposed by P203. The P203 solution was based in turn on the P198 Alternative solution

IA delivered to ELEXON on 14th Sept 2007 v0.1 of ICR758 CR102 P203 - Alternative P198 Introduction of a Zonal Transmission Losses Scheme.

Please Note. P203 has been identified by ELEXON as being the same as P198 Alt Option 1 Scripted Option 1.

Operational Impact of Solution

There will be no operational costs for TLF input, whilst adding increased validation and removing the possibility of manual input errors.

Impacts and Testing

CVA Changes to Service									
Services Impacted									
	BMRA	CDCA	CRA	ECVAA	SAA	STAR	NETA MAR	EI SERVER	ECVAA web service
Software			X						
Design Specification									
System Specification									
Operations Manual									
Logical Data Model									
IDD Part 1 (Docs)		Full	Full						
IDD Part 1 (S'Sheet)									
IDD Part 2 (Docs)		Full	Full						
IDD Part 2 (S'Sheet)									
URS		Full	Full						
Combined SAA/CRA/CDCA System Specification									
Infrastructure Design Specification									
NETA Overall Design Specification									
NETA Logical Data Model									
STAR 2 Functional Specification									
STAR 2 Technical Specification									
Formal System Testing Test Pack (Regression)									
User Guide									
User Guide Annex 1 (Help Text)									
User Guide Annex 2 (Admin Guide)									
User Guide Annex 3 (Technical Guide)									
Pack checklist & Guide									
Schema Documentation									
Xsec Installation Guide									
ECVAA Credentials Generator (.xls unsupported)									
Other ¹									

¹ Where this line is used, clearly state what is included in the 'any other information' section of this form.

Comments on Deployment Issues	None
Comments on Impact on System Performance:	None

Testing Strategy					
<p>Testing Synopsis: Testing involved for this change will be Change Specific, System and the following regression testing; R2T-27, R2T-28 and R3A-01.</p> <p>This change will be delivered as a patch release potentially targeted at April 2011. The Patch Release will have the same rigour applied to it as defect fix process in Application Support.</p>					
Unit and Module	X	Change Specific	X	Performance	
Formal System Testing (Regression)	X	System Integration Testing		Volume	
<p>Other:</p> <p>The main areas of testing performed will be:</p> <ul style="list-style-type: none"> • TLF values are correctly processed • Settlement Calculation is correctly calculated • CDCA 'Report Aggregated Volumes' scripts (CDCA-F029) 					
<p>Rationale:</p>					

Acceptance Criteria
Logica confirm that Logica will meet ELEXON's acceptance criteria as detailed in Change Delivery - Standard for Acceptance Criteria v1.0 dated 15 February 2008

Pricing and Assumptions by Application

Item Description	Total Price (ex VAT)	Price Tolerance	Project Duration
Application: CRA/CDCA			
Option 1: P229 Solution			
Change Cost	£28,215		
Total	£28,215	0%	4 weeks

Justification of Costs and Comments

P226 has been priced at ~£28K, Logica have kept this price low by delivering this as a patch release.

Specific Validity Constraints

None

Standard Validity Constraints

- 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 Walkthrough activities. Any effort will be charged at contracted T&M rates

The validity period for this assessment is 30 days and is based on the following payment schedule:

- Logica will invoice 30% on receipt of Purchase Order or authorised start of work, 30% on completion of first build phase, 30% on live implementation and 10% on successful completion of the Success Criteria or one month after live implementation, whichever is sooner.

Validated Assumptions

- The solution assumes that any seasonal TLF will be entered in time for that season and not immediately it is received.
- This change will be delivered as a patch release potentially in April 2011, however if Logica are not the AMD and BPO service provider the patch release model will not be viable.
- If this change is targeted at April 2011, the current Fee Rates will need to be indexed, thus a change in price.

Outstanding Issues and Risks

None

Any Other Information

- This change has been assessed where Logica are providing both the AMD and BPO service.
- This change is linked to Logica Reference: ICR964 v0.1 ("ICR964 BPO CR032 P229 IA v0.1.doc") and must be ordered together with this change. This will result in a combined project duration of 5 weeks.

Attachments	
ICR963 AMD CR169 P229 Price Presentation v0.1.xls	

Authorised Signature	Date Signed