

SVA Agent Assessment

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

Change Form		ELEXON Reference
		P213
Title		Version No.
Second ASSESSMENT CONSULTATION for Modification Proposal P213		V1.0 + additional impact
Facilitating Microgeneration (Optional Single MPAN)		Contractor Reference
		CR2224
Type of Assessment	Date Change Request Received	Date Impact Assessment Issued
DLIA v2.0	06/07/07	
Brief Summary of Change		
<p>Modification Proposal P213 seeks to simplify Non Half Hourly settlement of microgeneration by removing the requirement for Suppliers to have separate Metering Point Administration Numbers (MPANs) for the import and export registers. Instead, Suppliers will have the option of registering a customer's import and export using a single MPAN.</p> <p>The Second Assessment Consultation for Modification Proposal P213 specifies the changes required to the ISRA and MDD applications in order to achieve this objective, including two additional system changes (relaxing of validation rules) to ISRA and MDD. This is broken down into core changes together with a number of additional changes. These changes are summarised below based on the information provided, and using the format requested, in Appendix 5.</p> <p>Core Changes to ISRA and MDD Software (A5.1)</p> <p><u>Extension to Valid Set of SSC Type (A5.1.1)</u></p> <p>Both MDD and ISRA would be amended to recognise an additional SSC type of X for use with Import/Export Standard Settlement Configurations (SSCs). This data would be stored in MDD and output via the D0269, D0270 and D0278 flows. The data would be loaded into ISRA via the D0278 flow.</p> <p><u>New Import/Export Flag held against Measurement Requirement (A5.1.2)</u></p> <p>A new flag will be required at the TPR level for Import/Export SSCs to indicate which are import and which are export. This will be included in the Measurement Requirement entity in MDD (entity 29) and will be called the Import/Export Register Type. It will also be added to the TPR record in the D0278 flow, which will be used to load this data into ISRA.</p> <p><u>ISRA to Hold Substitution Table (A5.1.3)</u></p> <p>A new ISRA database table would contain a substitution table which would be used by the software to determine which Period Profile Class Coefficients (PPCCs) to use for Import/Export SSCs. This data would be loaded into ISRA automatically via the MDD D0278 flow with a Manual data entry screen as a backup mechanism.</p> <p><u>ISRA to Use Substitution Table in Calculation of Profile Coefficients (A5.1.4)</u></p> <p>The data in the Substitution Table would be used when constructing Period Profile Class Coefficients (PPCCs) for Import/Export SSCs as part of the Daily Profile Production (DPP) run.</p>		

ISRA to Assign Import/Export Energy to Correct Consumption Component Class (A5.1.5)

For Import/Export SSCs only, ISRA would use the new Import/Export Register Type flag to allocate energy to the correct Consumption Component Class (CCC) at TPR level.

Additional Changes for Publication of Substitution Table (A5.2)

The Substitution Table data will be published in MDD with a new MDD Entity created. A new MDD table would be required to hold the Substitution Table data, which would be added to the D0278 flow for loading into ISRA. A manual ISRA data entry screen would also be provided for backup. The Substitution Table data will be provided to Suppliers in the D0269 and D0270 data flows.

Additional Changes to include LLFCs in the Substitution Table (A5.3)

The Substitution Table is used to select substitute Line Loss Factors (LLFs) as well as substitute Profile Coefficients.

Extending the Substitution Table to Include LLFCs (A5.3.1)

This data would be loaded into ISRA automatically via the MDD D0278 flow with a manual ISRA data entry screen as a backup mechanism. VAR processing would be amended to select substitute LLFs when processing Import/Export SSCs.

Additional Change to DUoS Reporting (A5.3.2)

Additional change to amend the Distribution Use of System (D0030) report to include substitution details for an SPM cell.

Additional Change to Supplier Reporting (A5.3.3)

Additional change to amend the Supplier Purchase Matrix (D0082) reports to include substitution details in the same way as the Distribution Use of System (D0030) report.

Pool Application

In addition to the changes to MDD and ISRA identified within the Requirements Specification, P213 will also have an impact on the Pool Application. The SVAOSS team has carried out an assessment of the impact on the Pool Application and this SVA Agent assessment takes the SVAOSS assessment into account.

Operational Impact and Solution

Core Changes to ISRA and MDD Software

MDD procedures will need to be amended to include the new SSC Type and Import/Export Register Type fields.

Additional Changes for Publication of Substitution Table

Procedures will be required for a new MDD Entity to hold Substitution Table data, manual entry of data into the Substitution Table in MDD and ISRA (as a backup) and automatic entry of the Substitution Table into ISRA via the MDD D0278 flow.

Additional Changes to include LLFCs in the Substitution Table

The additional change would affect the calculations carried out by the ISRA software, the new data input screen, and the content of some of the ISRA reports, but would not significantly impact the SVA Agent's procedures.

Ongoing Operational Work

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The Substitution Table data will be held in MDD and transferred into ISRA electronically. It is expected that any changes to the Table will be treated as part of the normal MDD update and publish cycle. In this case, there would be no additional charge for updating the table.

Implementation Strategy

The testing identified in this assessment would be carried out by the SVA Agent using the Tru64 version of the applications. This testing would need to be duplicated by the new CVA/SVA Business Process Operations and Hosting service provider using the HP-UX versions of the applications. This applies to implementing P213 as part of a November 2008 Release, February 2009 Release or a release outside of the schedule.

The cost of implementing P213 outside of the release schedule would not change the costs indicated in this assessment.

Testing Requirements and Approach

Regression	√	Change Specific	√		
Full Width	√	Performance	√		
SAT	√				

Comments on SVAA Testing:

Operational Acceptance Testing

A price has been provided for Operational Acceptance Testing of the Core Changes to MDD and ISRA together with the publication of the Substitution Table. This price also includes testing the Pool Application and the changes to the following reports:

- MAE: Mix of Actuals and Estimates
- P0145: PARMS Serial SP08 (Energy and MSIDs on Actuals)
- P0146: PARMS Serial SP09 (NHH Defaults)
- P0164: PARMS Serial SP07 (SMRA and SVAA MSID Count).

Client Acceptance Testing

The changes to the ISRA application will also require Client Acceptance Testing (CAT). ELEXON has recently commissioned Capgemini to undertake a detailed analysis of ELEXON's CAT test pack and calculation tools, to update and modify these and to carry out a baseline test with a view to performing Client Acceptance Testing of future releases of ISRA on ELEXON's behalf. During the course of this work the SVA Agent will gain a more detailed understanding of the test pack. However, at the time of this assessment, the work is at an early stage. The CAT prices shown in this assessment should therefore be regarded as outline estimates only. More accurate prices can be provided once the CAT baseline test has been completed.

Client Acceptance Testing for P213 will involve modifying the calculation tools and restructuring the databases.

An estimated price has been provided for testing the core changes to ISRA, including the distribution of the Substitution Table via an electronic interface to ISRA and testing of the additional changes to the Distribution Use of System (D0030) report and the Supplier Purchase Matrix (D0082) report.

Recommendations for client testing – e.g. SIT, PPT, parallel running etc.:

Given that new versions of some flows are proposed, and that the content of some reports output from ISRA will change, System Integration Testing (SIT) is strongly recommended. However, this assessment does not include a price for SIT as this cannot be determined until the requirements have been specified by ELEXON.

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Contractor Documentation Changes
The SVAA Operations Procedures Manual (EP061) and Market Domain Data Management Procedures (EP009) will be updated to include the new procedures.
Assumptions
<ul style="list-style-type: none">• CAT testing will be carried out by the SVA Agent on ELEXON's behalf.• The CAT databases and the DPP and VAR calculation tools used to generate expected CAT results will need to be updated as appropriate to reflect the changes.• The MDD User Guide currently being prepared by the SVA Agent will need to be updated to reflect the changes in P213. As the User Guide will be a live document in the near future, it is assumed that ELEXON will carry out the necessary updates.
Risks
The Substitution Table data will be entered manually into MDD. Manual data entry always carries a risk of human error.
Issues
<p>P213 proposes that the new SSC type should be published via version 003 of D0269 and D00270, and version 002 of D0278. It should be noted that version 002 of D0269 and D0270 is still active and used by many market participants. These participants will not receive the new data.</p> <p>The use of substitute PPCCs may affect the calculation of Average Fractions of Yearly Consumption (AFYCs) within the ISRA application.</p>
Impact on Performance
It is not expected that P213 will affect the performance of the applications. This will, however, be established during Operational Acceptance Testing.
Responsibilities of ELEXON
<p>To consider the impact of P213 on the AFYC calculations.</p> <p>To update the MDD User Guide to reflect the P213 changes.</p> <p>To determine the size of the Substitution Table data to be included in D0269 and D0270 flows.</p> <p>To consider whether System Integration Testing (SIT) is needed and, if so, to specify the requirements.</p>
Recommendations
The Data Transfer Network (DTN) will need to be updated to accommodate the proposed changes to flow contents. These changes should be fully tested prior to go-live. Ideally, the DTN should be used as the method of data transfer during any System Integration Testing.

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Additional Comments
<p>The publication of the Substitution Table data to Suppliers via MDD D0269 and D0270 flows will increase the size of the flows by an unknown amount. The two files have reached sizes up to 42Mb and 15Mb respectively. It would be advisable to calculate the size of the extra data and, if it is considerable, include a specific test to ensure there will be no adverse effect when distributing the flows via DTN or email.</p>
Attachments
None

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PRICING		
Price Breakdown		
Item description	Remarks	Price (ex VAT)
Initial Costs	Core Changes	
	Estimated price for carrying out Operational Acceptance Testing of the core and additional changes to ISRA, MDD and the Pool Application.	£34,042
	Estimated price for carrying out Client Acceptance Testing of the core and additional changes, including amending the calculation tools and restructuring the databases.	£56,350
	Total Estimated Initial Costs	£ 90,392
On-going Costs	None.	Nil
	Total On-going Costs	£0

Timescales
An elapsed time of 2 months from receipt of the revised software should be allowed for completion of testing, regardless of the options chosen.

Validity Constraints
None identified.

Authorised Signature	Date Signed
<i>Tony Stansall</i>	<i>19/07/07</i>