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MP4 Requirements for Enhanced ECVAA Reporting

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d Changes Forecast

None.

e Related Documents

P4 Modification Proposal

BSC Panel Paper 017/010

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1   INTRODUCTION

1.1   Background and Scope

The MP4 Modification Proposal for dual notification was discussed by the Panel at the BSC Panel Meeting of the 5th April 2001. The Panel determined that the Modification Proposal should be passed to the MP4 Modification Group for Assessment (hereafter referred to as the Group). The precursor to this assessment was the circulation of the MP4 Modification Proposal for consultation, with the responses from the consultation provided into the Group.

This initial assessment of the requirements for the dual notification process indicated that one aspect of the dual notification process is the provision of a way forward to the removal of existing impediments to within day trading. The majority of respondents indicated that they believe the major factors impeding liquidity of the current market operation with regards to within day trading to be:

- the opacity of contract position for a Trading Party through the day; and

- perceived curtailment of the operational day occasioned by the production of the ECVAA Forward Contract Report (ECVAA-I022 – the '7 Day Report')

On their initial review of the MP4 Modification Proposal which took place on the 26 April 2001, the Group ascertained that these factors inhibited real time trading and therefore should be addressed as part of any solution for the dual notification proposal.

Given the nature of the dual notification proposition, it was determined that the potential time lapse prior to any implementation of a solution could be significant. Therefore the Group determined that enhanced near to real time reporting from ECVAA on contract positions would significantly increase within day trading and, therefore, better meet the objectives of contract trading under the Balancing and Settlement Code.

It was noted by the Group that the implementation of such enhanced reporting would have the effect of increasing Notification volumes into ECVAA, as Trading Parties would be enabled to trade more effectively within day. Therefore concerns were raised, by the Group, that the current volume limits of 2000 contract notifications per Settlement Period would not be sufficient to cater for increases in notifications. The Group noted that ECVAA volume constraints should increase, but it was unclear as to over what period of time and to what volume level. Thus they recognised that any reporting implementation should include reference to such volumetric constraints. However, this is being progressed separately to the requirements specified in this document.

It was determined therefore, that a specification detailing the enhanced reporting requirements would be drafted and provided as a matter of urgency. It was also noted that the definition and implementation of these reporting requirements would be taken account of in subsequent work on the dual notification process specification.

It should be noted that these reporting requirements are separate from that regarding the frequency of the 7 Day Report requested by the Panel raised at the 3rd May 2001 Panel meeting (Panel Paper 017/010).

Version 1.0 of this Specification document was issued for a High Level Impact assessment by the Logica Consortium, with a summary of the responses from that initial impact assessment being provided to MP4 Modification Group Members at the meeting of the 16th May 2001. In light of that initial assessment, the Group determined that the reporting requirements be defined at a lower level, and be prioritised, as concerns were raised by the Group regarding the potentially significant implementation timescales, given the urgency of the requirement for enhanced ECVAA reporting.

Therefore this version of the Specification document incorporates the amendments required by the MP4 Modification Group.

1.2   Purpose and Structure of Document

The primary purpose of this document is to specify ELEXON's requirements for the requisite change to ECVAA functionality in sufficient detail to allow the Logica Consortium to provide the following:

* An assessment of the cost of any changes to the contractual baseline.

* An assessment of the elapsed time required to implement the changes.

* A proposed testing strategy for the changes.

* A proposed release and acceptance strategy (e.g. whether to phase the implementation to provide a quick solution to urgent operational issues).

For the purposes of this assessment, the Logica Consortium should assume that the changes will be implemented as a standalone development project managed by ELEXON.

The required amendments have been structured such that each requirement is standalone and complexity is increased with each requirement. Therefore, these requirements can be costed and progressed separately, with the aim being for each increment in functionality to be progressed and implemented as quickly as possible.

The document is structured as follows:

* Section 2 specifies the required functionality for each of the changes included in the scope of the release.

* Section 3 specifies ELEXON's requirements for involvement in the design and testing process.

1.3   Glossary

The following acronyms have been used throughout this document:

BSC	Balancing and Settlement Code
ECVAA	Energy Contract Volume Aggregation Agent
ECVN	Energy Contract Volume Notification
ECVNA	Energy Contract Volume Notification Agent
ECVNAA	Energy Contract Volume Notification Agent Authorisation
IDD	Interface Definition Document

MVRN   Metered Volume Reallocation Notification

MVRNA   Metered Volume Reallocation Notification Agent

MVRNAA   Metered Volume Reallocation Notification Agent Authorisation

URS   User Requirements Specification

2 REQUIRED CHANGES TO FUNCTIONALITY

2.1 Enhancement of the ECVAA Reporting Functionality

Following the initial view, preceding the High Level Impact Assessment, provided by the Logica Consortium regarding the enhanced ECVAA Reporting requirements defined within V1.0 of this document, the Group reassessed their requirements in an attempt to reduce the timeframes for implementation of the requisite change to ECVAA Reporting Functionality. Therefore this amended definition supersedes that originally provided to the Logica Consortium and represents the definitive statement of the requirements of that Group.

There are three requirements defined within this specification, which have been prioritised by the Group to indicate the required order of delivery of each piece of functionality. This phased approach has been defined in order that the immediate requirements of the Group be met in the short term, with longer term solutions identified as the preferred position to work towards.

The following sections describe the functionality required to meet the enhanced reporting requirements of the MP4 Modification Group:

2.1.1 Priority 1: Acceptance Feedback Report

On receipt and successful business validation of a contract notification (ECVN / MVRN), a positive Acceptance Feedback dataflow covering 72 Settlement Periods forward, should be generated to the sending Notification Agent and the counterparties to the contract notification.

It should be noted that the dataflow definitions are based upon the current format of the ECVN Feedback (ECVAA-I009 / E0091) and MVRN Feedback (ECVAA-I010 / E0101) in order that any impact on both Participants and the ECVAA service is minimised.

It is envisaged that these dataflows will be generated and transmitted in exactly the same way and to the same service level requirements as the existing Feedback Reports, i.e. automatic generation within fifteen minutes of receipt of the original notification.

As the new report would be a positive Feedback Report, there is no requirement for a Rejection Reason data item. Therefore it is proposed that the filename of the original notification be substituted, thus ensuring that Participants are able to determine the original submission that the Acceptance is being made against.

It should be noted that because of the requirement to report forwards for 72 Settlement Periods, the effective from and effective to dates in the 'Accepted ECVN / MVRN' part of the dataflow pertain to the Settlement Periods thus associated (and not to the information provided on the original submission). It should be noted that the dataflow and therefore the 'Accepted ECVN / MVRN' information will be repeated for each Settlement Day being reported on (i.e. if the accepted notification spanned 72 Settlement periods over three days, the dataflow will contain three repetitions of the information for each Settlement Day).

It is expected that these dataflows, despite being in the same format as the current Feedback Reports, will have a different dataflow reference, thus ensuring that Participants

can differentiate between rejections of ECVNs / MVRNs which may require immediate recovery / correction action, and acceptances, which may require only review / confirmation by the Trading Party.

The following defines the requirements for the positive feedback dataflows, and utilises the format of the IDD/URS for clarity:

2.1.1.1 *Energy Contract Volume Notification Positive Feedback:*

The ECVAA Service shall issue positive ECVN Feedback to BSC Parties and ECVNAs continuously to report the Acceptance of ECVNs on receipt and successful business validation.

This positive ECVN Feedback should be generated only where the Energy Contract Volumes so notified become Effective within 72 Settlement Periods of the 'Received Time[1]' of the ECVN. Energy Contract Volumes becoming effective after this period will be reported in the Forward Contract Report (ECVAA-I022 / E0221) and there is therefore no requirement to report these separately.

The ECVN Positive Feedback shall comprise:

Accepted ECVN

      ECVNA Id

      ECVNAA Id

      ECVN ECVNAA Id

      Effective From Date

      Effective To Date

      Filename of original submitted ECVN

      Accepted Energy Contract Volumes

            Settlement Period (1-50)

            Energy Contract Volume (MWh)

Notes:

i. The Accepted Energy Contract Volumes will comprise only those Energy Contract Volumes accepted into the ECVAA system.

ii. The Accepted Energy Contract Volumes will comprise only those parts of the Energy Contract Volumes accepted into the ECVAA system that are effective within 72 Settlement Periods of the 'Receipt Time' of the ECVN, i.e. the Acceptance report is limited to reporting forwards for 72 Settlement Periods[2] only.

1.1.1.1

[1] Obtained from the Automatic System Acknowledgement – ECVAA-I019 / E0191.

[2] This is a rolling 72 Settlement Periods. The number of Settlement Periods reported across clock change days should remain as 72.

The ECVAA Service shall process Energy Contract Volume Notifications automatically upon receipt and shall return acceptances within 15 minutes of receipt.

2.1.1.2 *Metered Volume Reallocation Notification Positive Feedback:*

The ECVAA Service shall issue positive MVRN Feedback to BSC Parties and MVRNAs continuously to report the Acceptance of MVRNs on receipt and successful business validation.

This positive MVRN Feedback should be generated only where the Metered Volume Reallocations so notified become Effective within 72 Settlement Periods of the 'Received Time[3]' of the MVRN. Metered Volume Reallocations becoming effective after this period will be reported in the Forward Contract Report (ECVAA-I022 / E0221) and there is therefore no requirement to report these separately.

The MVRN Positive Feedback shall comprise:

Accepted MVRN

> MVRNA Id
>
> MVRNAA Id
>
> MVRN MVRNAA Id
>
> Effective From Date
>
> Effective To Date
>
> Filename of original submitted MVRN
>
> Accepted Metered Volume Reallocations
>
>> Settlement Period (1-50)
>>
>> Metered Volume Fixed Reallocation (MWh)
>>
>> Metered Volume Percentage Reallocation (%)

Notes:

i. The Accepted Metered Volume Reallocations will comprise only those Metered Volume Reallocations accepted into the ECVAA system.

ii. The Accepted Metered Volume Reallocations will comprise only those parts of the Metered Volume Reallocations accepted into the ECVAA system that are effective within 72 Settlement Periods of the 'Receipt Time' of the MVRN, i.e. the Acceptance report is limited to reporting forwards for 72 Settlement Periods[4] only.

The ECVAA Service shall process Metered Volume Reallocation Notifications automatically upon receipt and shall return acceptances within 15 minutes of receipt.

1.1.1.1

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[3] Obtained from the Automatic System Acknowledgement – ECVAA-I019 / E0191.

[4] This is a rolling 72 Settlement Periods. The number of Settlement Periods reported across clock change days should remain as 72.

In order to provide an example of the usage / format of the interface; where a ECVN was submitted at a time where the Acceptance spans three Settlement Days, the dataflow will appear thus:

Accepted ECVN

ECVNA Id

ECVNAA Id

ECVN ECVNAA Id

Effective From Date (Day 1)

Effective To Date (Day 1)

Filename of original submitted ECVN

Accepted Energy Contract Volumes

Settlement Period (1-50) – those Settlement Periods relevant to Day 1

Energy Contract Volume (MWh)

Accepted ECVN

ECVNA Id

ECVNAA Id

ECVN ECVNAA Id

Effective From Date (Day 2)

Effective To Date (Day 2)

Filename of original submitted ECVN

Accepted Energy Contract Volumes

Settlement Period (1-50) – those Settlement Periods relevant to Day 2

Energy Contract Volume (MWh)

Accepted ECVN

ECVNA Id

ECVNAA Id

ECVN ECVNAA Id

Effective From Date (Day 3)

Effective To Date (Day 3)

Filename of original submitted ECVN

Accepted Energy Contract Volumes

Settlement Period (1-50) – those Settlement Periods relevant to Day 3 to the limit

Energy Contract Volume (MWh)   of 72 Settlement Periods

2.1.2 Priority 2: Amendments to the Existing Forward Contract Report

Three amendments to the Forward Contract Report are proposed.

1. The Forward Contract Report (ECVAA-I022 / E0221) should be amended to include all Settlement Periods which have not yet gate closed on the day the report is generated at the Report Snapshot Time.

2. The Forward Contract Report should be amended to include reporting on Null / Zero volumes for Settlement Periods for any relevant Notification Agent Authorisation and Trading Party.

3. The Forward Contract Report should be amended to include the filename of the original notification last received which has been processed and incorporated in the Forward Contract Report.

The 'notification last received' should be defined as the last received notification that contained the Trading Party for which the Forward Contract Report is being generated as a Counterparty to the notification.

It is also proposed that the Forward Contract Report contains this information for both ECVNs and MVRNs – i.e. requiring the addition of two new data fields.

Given the existing format of the dataflow, the most appropriate place for the inclusion of these two data fields is in the Forward Contract Header (FCH) Group at the end of the group as it stands (i.e. after Report Snapshot Time).

2.1.3 Priority 3: Web Based Contract Position Reporting

Consideration should be given to provision of a reporting mechanism similar to that already in place in the gas market, i.e. a web based application where contract positions can be retrieved in real time by a Trading Party. This would report on, and therefore show contract positions on a real time basis via a screen based view into the ECVAA database, accompanied by the relevant levels of security. Consideration should also be given as to the 'scrapeability' of such a screen – i.e. the ability for Trading Parties to report from the database to obtain information from the screen.

3   DEVELOPMENT PROCESS

For the purposes of this assessment, the Logica Consortium should assume that the changes will be implemented as a standalone development project managed by ELEXON.

Notwithstanding, ELEXON recognise that responsibility for design, testing and implementation of the ECVAA system lies with the Logica Consortium, and in order to gain assurance that changes made are consistent with the requirements, ELEXON requires visibility of these processes. The following sections give an indication of the control points required during design, testing and implementation and are supplied to provide a basis on which the Logica Consortium can estimate.

3.1   Design

ELEXON intend that responsibility for the correctness of the design should remain with the Logica Consortium, but that ELEXON should have the opportunity to review it, and identify apparent inconsistencies with the requirements. The following processes are proposed to achieve this:

- ELEXON will review changes to the User Requirement Specifications (URS), and sign the document off once review comments have been addressed.

- ELEXON will review changes to the System Specification and Design Specification, and identify any evident inconsistencies with the URS, but will not sign off the documents.

3.2   Testing

ELEXON intend that responsibility for software testing should remain with the Logica Consortium, but that ELEXON should have some visibility of the process, in order to gain assurance that the integrity of Trading and Settlement is maintained. The following processes are proposed to achieve this:

- As part of the response to this document, the Logica Consortium will provide a statement of their proposed testing strategy. This statement will be reviewed by ELEXON, and should explain how the Logica Consortium will demonstrate that the changes are ready for live operation, and that there is no unplanned impact on pre-existing facilities.

- ELEXON will be provided for information with test plans, test scripts and other test documentation that they may request. ELEXON will review these documents, and identify any evident inconsistencies with the agreed testing strategy, but will not sign them off.

- ELEXON will have the option of witnessing appropriate elements of the Logica Consortium's testing.

- The Logica Consortium will provide ELEXON with a test report, summarising the testing carried out, and the results of those tests. The report will also describe any defects found during testing, and the steps taken to resolve them.

3.3   Implementation

ELEXON anticipate the following interaction with the Logica Consortium's implementation process:

- As part of the impact assessment of this document, the Logica Consortium will provide a high-level statement of their proposed implementation approach (describing, for example, whether a phased approach is proposed). ELEXON will review and sign off this high-level implementation strategy.

- Implementation date(s) for the changes described in this document will be agreed in advance by ELEXON and the Logica Consortium.