Form A – MIG Design Discussion Request

Discussion Request Number	Title	Priority
DR 0063	Package messages on MPCC	*High*

Name of Requesting Organisation	**ESB MOIP**
Contact name	*Cormac Bland*
Date Request sent to ESB MOIP	*24th March 2005*

Detail of Discussion Request

Background

Currently each package sent from an MPCC to the market gateway contains only one market message, each of these packages requires a receipt acknowledgement to be sent back to the MPCC once the Market Gateway has successfully received the package. In circumstances where a large volume of messages are sent from an MPCC, this results in a large number of packages and resultant receipt acknowledgements. In a previous case where a very large number of incoming messages were received their were delays experienced with all incoming messages, the proposal below should help prevent this problem reoccurring.

Proposal

The proposal is to modify the MPCC software so that the MPCC will send multiple market messages in each Package. This would reduce the number of packages sent, processed and receipt acknowledged and would therefore improve performance, both at the MPCC and the Market Gateway. Each Receipt Acknowledgement sent back to the MPCC would contain the file names of all XML messages sent in that package.

This is in fact the current process in place for all outbound messages to market participants from MRSO/DSO. Therefore acceptance of this DR would see a consistent approach being adopted to all market messages.

The software would be modified so that it will group messages together up to a size of 1MB and then send these in a single package to the market gateway. The MPCC will continue to poll the outbound folder every minute and send any messages which it finds. If there is only one message to transmit then the package will contain just that one message. If however there are several messages to transmit then these will be grouped into one package (up to a size of 1MB) and sent to the Market Gateway. Remaining messages would be grouped into the next package and so on.

Reason for Discussion Request

To improve performance by reducing the number of packages sent, processed and receipt acknowledged. In circumstances where a large volume of messages are sent from an MPCC, this currently results in a large number of packages and resultant receipt acknowledgements.

Impact on Market Participants.

If a market participant places numbers of individual messages into the outbound folder of the MPCC at the same time (within 1 minute) then the modified MPCC software will send more than one message per package, thus improving performance. It should be noted that if each individual message was placed into the outbound folder in 1 minute (or greater) intervals then this would result in a single message per

package as before. Thus the change will improve performance at times when a market participant has a high creation rate of messages. Please note that the current polling rate of once a minute will not change.

Receipt acknowledgements sent back to the MPCC will contain the filenames of all XML messages sent in that package.

If the Multiple Supplier ID change is approved and implemented it will have an impact on this change. It will be recommended that each outbound message filename format should be prefixed with the Supplier ID. This is to ensure that only messages from the same supplier are packaged and sent together.

Market Design Documents impacted by Request	
Date of MIG where discussed	*<to be discussed at MIG/TIG on 07/04/05>*
Change Request xref (if applicable)	*<to be completed by ESB MOIP>*