

Superannuation Transaction Network Binding Implementation Practice (BIP) Note

BIP Note [10]

Title:	<input type="text" value="ebMS Splitting and Joining"/>	Date:	<input type="text" value="26 Jun 2014"/>
		Version:	<input type="text" value="1"/>
Scope:	<input checked="" type="checkbox"/> transport layer <input type="checkbox"/> message payload <input type="checkbox"/> security	Status:	<input type="checkbox"/> Draft <input checked="" type="checkbox"/> Ratified
		Live Date:	<input type="text" value="1 Jul 2014"/>

*On this date this BIP note will
be binding on all participants*

1. Change

This document describes why ebMS splitting and joining is not required in the Superannuation Transaction Network.

2. Reason for Change

ebMS Splitting and Joining would be complex for STN gateways to implement and test. The *Message Orchestration and Profiles* document states that ebMS Splitting and Joining must be used once the total uncompressed payload size exceeds 1 GB. Based on volume testing performed by STN gateways, there is no conceivable situation where this limit would be exceeded. Therefore, ebMS Splitting and Joining is not required between gateways.

3. Standards Affected

Data and Payment Standards, Message Orchestration and Profiles v1.1

4. Description of Change

The ATO have released guidance that limits the number of contributions or registrations in a message part to 10,000. Volume testing performed by STN gateways indicates that this would result in an XBRL payload of up to 60 MB. After applying AS4 compression, the resulting size is around 3 MB.

The largest employers in Australia have in the order of 100,000 employees. This would result in approximately 10 message parts containing 10,000 contributions each. The total size (before compression) would be 600 MB, which is well below the Splitting and Joining threshold. The compressed size of such a message would be 30 MB.

Gateways must not use ebMS Splitting and Joining within the STN. In the unlikely scenario that the 1 GB Splitting and Joining threshold is ever reached, the message must be sent as a single message, i.e. the sending gateway must not split the message. Due to the verbose nature of XBRL, a 1 GB SuperStream message is expected to compress to 50 MB. This is not a large file size by modern internet standards and can be easily and quickly transferred between gateways.

This document does not impose a maximum limit on the size of messages transferred between gateways. To impose such a limit would require gateways to implement and test additional logic to handle that limit. Instead, this document notes the following:

1. a 1 GB total message size is extremely unlikely to be reached,
2. the compressed size of such a message is small enough to be easily transferred,
3. as such, it is not worth the effort required to implement ebMS Splitting and Joining

5. Technical Impact of Change

None – Splitting and Joining has not yet been implemented by the STN gateways.

6. Operational Impact of Change

None – Existing connectivity between gateways is unchanged.

7. Version History

Version	Date	Changes	Date Ratified	Live Date
0.1	2/06/14	Initial Version		
1.0	01/07/14	Change status to Ratified.	26/06/14	01/07/14