

Superannuation Transaction Network Binding Implementation Practice (BIP) Note

BIP Note [12]

Title:	<input type="text" value="RecordCount part property"/>	Date:	<input type="text" value="04 Dec 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 July 2015"/> <i>On this date this BIP note will be binding on all participants</i>

1. Change

Addition of a new part property in SuperStream ebMS3 message parts with XBRL payloads, called RecordCount¹, which indicates the number of records (rollovers, contributions or registrations) contained within the payload associated with each part. This BIP does not apply to response messages as they do not have XBRL payloads.

A record refers to a single member XBRL context. In the case of IRR and RTR this is the Member Rollover Transaction context. In the case of CTR and MRR this is the Superannuation Fund Member Details context.

2. Reason for Change

Gateways, payroll providers and perhaps other intermediate service providers facilitating the transport of messages throughout the SuperStream network *may* need to know, for the purposes of statistics gathering, performance, billing, etc., the total number (count) of records (rollovers, contributions or registrations) contained within a given XBRL payload.

Whilst the record count can be determined by parsing the payload there are a number of reasons why it is advantageous to provide this information external to the payload and so avoid the need for an intermediate service provider to examine/parse/analyse the payload. These reasons may include performance, privacy or contractual considerations.

3. Standards Affected

Contributions MIG

Rollovers MIG

4. Description of Change

For messages that have XBRL payloads (i.e. IRR, RTR, CTR, MRR) each message part will now have an additional part property called "RecordCount". Its value will be the total number of records (rollovers, contributions or registrations) within the associated payload.

The RecordCount semantics remain the same across all XBRL payload types: rollovers, contributions and registrations.

¹ The word 'RecordCount' was chosen as a generic term that can mean the number of either: rollovers, contributions or member registration records in a payload.

Implementation Phase 1

The requirement of phase 1 of the implementation is to ensure that each gateway has deployed a release of their service (gateway and/or application software/configuration as required) to their production servers that will not reject a message solely on the grounds that it contains a message containing RecordCount as a part property in each message part.

During this phase:

Production gateway network: Production gateways MUST NOT send any messages containing the RecordCount part property.

Testing gateway network: Gateways are to utilize the testing gateway network to test the ability to receive messages containing the RecordCount part property, orchestrating testing with peers in the usual pattern with gateways responding to reasonable requests by a peer to send a test message containing the RecordCount part property in its part(s).

Phase 1 completion date: 1 Feb 2015.

Implementation Phase 2

After Phase 1 has completed Phase 2 proceeds which allows/encourages gateways to deploy to production servers software/configurations that send messages containing the RecordCount part property in each message's part(s).

Phase 2 Implementation Scenarios

As SuperStream rollovers processing is already well established it may be deemed desirable to implement this change for contributions separately to rollovers or it may be decided that it is just as easy to implement the change for both rollovers and contributions at the same time.

This BIP allows for a number of implementation scenarios. The final implementation scenario is to be decided by the individual gateway but both Contributions and Rollovers should be supported by the Live Date:

1. Combined Implementation
RecordCount part property is implemented for both rollovers and contributions services at the same time.
2. Contributions then Rollovers Implementation
RecordCount part property is implemented for contributions service initially and then rollovers service soon after.

5. Technical Impact of Change

SuperStream message producers and consumers will need to be enhanced to implement the change though the change is of a relatively simple nature.

6. Operational Impact of Change

We know from previous gateway experience that the addition of an extra part property does not negatively impact the processing of messages as far as gateways are concerned.

Staged Deployment

Gateways that are not yet enhanced to process extra properties simply ignore these extra properties.

This means that the rollout of this BIP can be incremental and does not require a synchronized deployment by each message producer or consumer so long as all commit to providing the new RecordCount part property by an agreed "go live" date then all can assume it is available after that date and start using it.

Incorrect RecordCount Detection

After the Live Date the ultimate receiver of the message part/payload (or the receiving gateway if that gateway provides value added payload processing facilities) should accept a message if the RecordCount part property does not match the actual number of records within that message part's XBRL payload but it should issue a warning. This is to allow a sender to be notified that their RecordCount calculation algorithm may be incorrect. This will be an Application/Business Layer warning not an ebMS message. An appropriate warning code will be defined for this warning type and added to the error registry.

ASP has indicated that some funds have given feedback that it will be difficult to enforce this check and associated warning messages.

XPath example

The XPath expression to evaluate when performing the calculation of record count in any RTR, IRR, CTR or MRR XBRL payload are the same:

```
/xbrl/context/entity/segment[contains(implicitMember, 'SuperFundMember')]/explicitMember[contains(@dimension, 'ReportPartyTypeDimension')]
```

7. Version History

Version	Date	Changes	Date Ratified	Live Date
0.1	2 Sep 2014	Initial Version		
0.2	16 Sep 2014	Renamed ActionCount to RecordCount Mismatched RecordCount will be a warning and not an error – i.e. message will <i>not</i> be rejected. Assigned go live date. Added Implementation Timing section. Removed implementation scenario 3 as all gateways are to support this feature for contributions and rollovers by the Live Date.		
0.3	17 Sep 2014	Refactored implementation into two distinct phases.		
0.4	22 Sep 2014	Changed Phase 1 Implementation completion date to 1 Feb 2015.		
0.5	4 Nov 2014	Updated to reflect Carmen's ASP feedback.		
0.6	19 Nov 2014	Updated first paragraph to clarify what defines a 'record' in the context of 'record count'.		
0.7	26 Nov 2014	Enhanced xpath section to indicate that a single xpath expression works across payloads for RTR, IRR, CTR and MRR XBRL payloads. Fixed some typos.		
0.8	27 Nov 2014	Added Gary Jacob's clarifications on record definition.		
1	4 Dec 2014	Ratified at the GOG.	04 Dec 14	01 Jul 15