



Australian Government
Australian Taxation Office

DATA AND PAYMENT STANDARDS

SCHEDULE 5

MESSAGE ORCHESTRATION AND PROFILES

v3.0

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VERSION CONTROL

Version	Release date	Operative from	Description of changes
1.0	9 January 2013	1 July 2013	N/A
1.1	12 June 2013	1 July 2013	Updates to incorporate the RSA Data and Payment Standards 2013.
1.2	10 December 2013	1 July 2013	Technical updates to schedules incorporating industry and internal review.
2.0	1 August 2016	1 May 2017	Updates to align with release of new versions of taxonomy and schematron.
2.0	20 April 2017	1 May 2017	Technical updates to schedules incorporating industry and internal review.
3.0-0.1	14 November 2025	1 July 2026	- Applied current ATO style guide to document. - Updated taxonomy version for contributions to V3. - Added section 2.3 to incorporate Superannuation Transaction Network (STN) Binding Implementation Practice (BIP) Note 1 (compressed MIME attachments). - Incorporated STN BIP Note 2 (UsernameToken Not Required). - Added section 2.2.3 to incorporate STN BIP Note 4 ebMS From and To Fields - Added information to section 2.2.4 to incorporate STN BIP Note 14 Omitting pmode attribute on AgreementRef element - Removed 'Splitting and Joining' references in support of STN BIP Note 10. - Retry and Duplication Detection parameters updated to 'STN Defined' - All profile information updated to reflect the 'Application Gateway Profile' as the only valid profile.

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Note on terminology

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in RFC 2119 <http://www.ietf.org/rfc/rfc2119.txt>. The use of the word “mandatory” is to be read as “MUST”.

1 PURPOSE

This document defines the messaging services and interaction patterns that entities must use in certain transactions to comply with the Superannuation Data and Payment Standards 2012 and the RSA¹ Data and Payment Standards 2013 (the Standards).

Note: A reference to ‘the Standard’ in this document is a reference to whichever Standard is applicable to the entity for the transaction.

2 MESSAGE PACKAGING

2.1 EBMS MESSAGING SERVICE

- a. The transport of transactions subject to the Standard MUST be performed in a manner consistent with the OASIS ebXML Messaging Services Version 3.0: Part 1, Core Features, OASIS Standard, 1 October 2007² (ebMS 3.0 Messaging Standard) as it exists from time to time.
- b. If the specifications or requirements in the Message Orchestration and Profiles document, or any other document incorporated by reference in Schedules 1 through to 6 to the Standard, are more specific than, or contrary to, the specifications or requirements in the ebMS 3.0 Messaging Standard, the requirements and specifications in the documents incorporated by reference in the Standard MUST be followed.

2.2 ebMS HEADER CONSTRUCTION

- a. The ebMS header MUST be constructed and processed in accordance with the specification in section 5.2.2 of the ebMS 3.0 Messaging Standard.
- b. The message information elements MUST be configured as set out in sections 2.2.1 through to 2.2.5 of this document.

¹ Retirement Savings Accounts.

² Available at http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/core/os/ebms_core-3.0-spec-os.pdf

2.2.1 User message

(Refer ebMS 3.0 Messaging Standard, section 5.2.2.)

Element	Configuration Note	Optionality
eb:MessageProperties	This element is optional under the ebMS 3.0 Messaging Standard; however it SHOULD NOT be provided under the Standard. If this element is received it MUST be ignored.	SHOULD NOT BE PROVIDED
eb:PayloadInfo	This element is optional under the ebMS 3.0 Messaging Standard; however it MUST be provided under the Standard.	MANDATORY

2.2.2 To and from

- a. If a message interaction involves an RSA provider as well as, or instead of, a superannuation fund, a reference in the following table to a unique superannuation identifier is a reference to a unique RSA identifier to the extent this is consistent with the RSA provider's role in the transaction.
- b. However, to avoid any doubt there is no change to any system related terms even if the entity is an RSA provider.

(Refer ebMS 3.0 Messaging Standard, sections 5.2.2.3 and 5.2.2.5.)

Element	Configuration Note	Optionality
eb:PartyID	The value of this element MUST be either: a Unique Superannuation Identifier if the document referred to in Schedule 4(a) or 4(b) to the Standard calls for the entities to be identified in this way; or otherwise the ABN of the entity, represented as an 11-digit number with no internal separator characters. There MUST be one (and only one) PartyID with attribute @type equal to: "http://sbr.gov.au/identifier/usi" where the value is a Unique Superannuation Identifier ; or "urn:oasis:tc:ebcore:partyid-type:ABN:0151" where the value is an ABN.	MANDATORY
eb:Role	Unless a specific value is provided in the document referred to in Schedule 4(a) or 4(b) to the Standard, this element MUST have the default value specified in the ebMS 3.0 Messaging Standard.	MANDATORY

2.2.3 ebMS From and To Fields

The eb:From and eb:To fields must contain the source and destination of the particular ebMS message. For example, if gateway 1 sends a message to gateway 2, the eb:From must contain the ABN of gateway 1, and the eb:To must contain the ABN of gateway 2.

For example, the following message flow must use the scheme defined in the table to populate the eb:From and eb:To fields:

1. Fund A sends an RTR message to Gateway X
2. Gateway X sends the RTR message to Gateway Y
3. Gateway Y sends the RTR message to Fund B

Message	Source	Destination	eb:From	eb:To
1	Fund A	Gateway X	ABN of Fund A*	ABN of Gateway X*
2	Gateway X	Gateway Y	ABN of Gateway X	ABN of Gateway Y
3	Gateway Y	Fund B	ABN of Gateway Y*	ABN of Fund B*

* Suggested values only. Actual values are determined by mutual agreement between each fund and its chosen gateway.

A separate ebMS message is created for each hop. Each ebMS message contains a different signature and eb:MessageId value. Therefore, it is logical that each ebMS message reflect the message's source and destination in the eb:From and eb:To fields as per the table above. This is the existing practice amongst Gateways

2.2.4 Additional action indicators prohibited

Optional facilities **MUST NOT** be used unless there has been explicit discussion and agreement by all members of the STN.

Accordingly, the SOAP Action parameter **MUST** be absent from the Content-Type header of SuperStream SOAP messages.

The Content Type header should therefore appear as;

```
Content-Type: application/soap+xml; charset=utf-8
```

While the ebMS3 specifications allow the use of the Web Services Addressing elements in certain circumstances (e.g multi-hop scenarios), SuperStream connections are currently point to point. As such, no Web Service Addressing elements are required by the ebMS3 specifications and they **MUST NOT** be included in SuperStream SOAP messages.

Gateways **MUST NOT** expect to receive either of these action indicators, nor require other gateways to include them in generated messages. In addition, gateways are not permitted to enter into bilateral agreements that allow for the use of these alternate mechanisms.

In addition the pmode attribute of the AgreementRef header element **MUST NOT** be included in any message exchanged between gateways where the agreement value provided conforms to BIP2.

Gateways MUST NOT expect to receive the pmode attribute, nor require other gateways to include it in generated messages. In addition, gateways are not permitted to enter into bilateral agreements that allow the use of the pmode attribute.

2.2.5 Collaboration information

(Refer ebMS 3.0 Messaging Standard, section 5.2.2.6.)

Element	Configuration Note	Optionality
eb:AgreementRef	This element is optional under the ebMS 3.0 Messaging Standard; however it MUST be provided under the Standard. If a default Agreement (see section 4 of this document for more details) under the Standard is not being applied, then the value of AgreementRef MUST NOT use the "http://sbr.gov.au/" domain. The attribute @type SHOULD NOT be provided when a default Agreement under the Standard is applied and MUST be ignored if present in this case.	MANDATORY
eb:Service	The required value for this element is specified in the "Service" Transport Linkage attribute of the document referred to in Schedule 4(a) or 4(b) to the Standard. The attribute @type SHOULD NOT be provided and MUST be ignored if provided.	MANDATORY
eb:Action	The required value for this element is specified in the "Action" Transport Linkage attribute of the document referred to in Schedule 4(a) or 4(b) to the Standard.	MANDATORY
eb:ConversationID	The required value for this element is specified in the "ConversationID" Transport Linkage attribute of the document referred to in Schedule 4(a) or 4(b) to the Standard.	MANDATORY

2.2.6 Part information

(refer ebMS 3.0 Messaging Standard, Section 5.2.2.13)

Element	Configuration Note	Optionality
eb:Schema	Where the payload part is an XBRL instance, the @location attribute MUST match the value of the href attribute of the schemaRef element in the XBRL instance. Refer to the table below for href values for each request message: Where the payload part is an error response, the @location attribute MUST have a value of "http://sbr.gov.au/schema/event.02.01.xsd". This element is optional under the ebMS 3.0 Messaging Standard; however it is MANDATORY under the Standard.	MANDATORY
eb:PartProperties	This element is optional under the ebMS 3.0 Messaging Standard; however it is MANDATORY under the Standard.	MANDATORY

2.2.6.1 Schedule 4a - Contributions

Taxonomy Version 1 (sprcnt.0001)	
Contributions Transaction Request *	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprcnt/sprcnt_0001/sprcnt.0001.contrans.request.02.02.report.xsd
Member Registration Request *	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprcnt/sprcnt_0001/sprcnt.0001.memreg.request.02.01.report.xsd
Taxonomy Version 2 (sprcnt.0002)	
Contributions Transaction Request *	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprcnt/sprcnt_0002/sprcnt.0002.contrans.request.02.00.report.xsd
Member Registration Request *	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprcnt/sprcnt_0002/sprcnt.0002.memreg.request.02.00.report.xsd
Government Contribution Transaction Request †	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprcnt/sprcnt_0002/sprcnt.0002.contrans.request.02.00.report.xsd
Government Contributions Transaction Amendment Request †	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprcnt/sprcnt_0002/sprcnt.0002.govtcontamend.request.02.00.report.xsd
Taxonomy Version 3 (sprcnt.0003)	
Contributions Transaction Request ‡	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprcnt/sprcnt_0003/sprcnt.0003.contrans.request.02.00.report.xsd
Member Registration Request ‡	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprcnt/sprcnt_0003/sprcnt.0003.memreg.request.02.00.report.xsd
Member Verification Request ‡	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprcnt/sprcnt_0003/sprcnt.0003.memver.request.02.00.report.xsd

* Under the Contributions Message Implementation Guide (MIG) v2.0, employer to fund contributions (B2B) use taxonomy version 1 this will be superseded by v3.0 at end of transition period.

† Government to fund contributions (G2B) re-used the B2B pattern; therefore the contributions taxonomy version 2 was designed to cater for both government contributions as well as B2B contributions. Under the Contributions Message Implementation Guide (MIG) v3.0, (G2B) utilises taxonomy version 2.

‡ Under the Contributions Message Implementation Guide (MIG) v3.0, employer to fund contributions (B2B) utilises taxonomy version 3.

2.2.6.2 Schedule 4b - Rollover

Taxonomy Version 1 (sprrol.0001)	
Initiate Rollover Request	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprrol/sprrol_0001/sprrol.0001.inititaterollover.request.02.00.report.xsd
Rollover Transaction Request	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprrol/sprrol_0001/sprrol.0001.rollovertrans.request.02.00.report.xsd
Taxonomy Version 2 (sprrol.0002)	
Initiate Rollover Request	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprrol/sprrol_0002/sprrol.0002.inititaterollover.request.02.00.report.xsd
Electronic Portability Form	As above
Section 20C Notice	As above
Rollover Transaction Request	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprrol/sprrol_0002/sprrol.0002.rollovertrans.request.02.00.report.xsd
USM Rollover Transaction Request	As above
Taxonomy Version 3 (sprrol.0003)	
Initiate Rollover Request	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprrol/sprrol_0003/sprrol.0003.inititaterollover.request.02.00.report.xsd
Electronic Portability Form	As above
Release Authority	As above
Section 20C Notice	As above
Rollover Transaction Request	http://sbr.gov.au/taxonomy/sbr_au_reports/sprstrm/sprrol/sprrol_0003/sprrol.0003.rollovertrans.request.02.00.report.xsd
USM Rollover Transaction Request	As above
Release Authority Statement	As above

2.2.7 Part properties

(refer ebMS 3.0 Messaging Standard, Section 5.2.2.13)

Element	Configuration Note	Optionality
eb:Property	Every part MUST carry a property with an attribute @name value of "PartID". The value of this property MUST uniquely identify the individual part within the message envelope. The value does not need to be unique outside of the message. This element MAY be populated, where relevant, with the payment reference number associated with the XBRL instance included in this part. The full value of this property MUST be no longer than 40 characters and allowable characters are strictly limited to the following characters (0-9, a-z, A-Z, _, -, .)	MANDATORY
eb:Property	Other required eb:Property elements MUST be provided as specified in the "Part Properties" Transport Linkage attribute of the document referred to in Schedule 4(a) or 4(b) to the Standard.	MANDATORY (when specified in the relevant Message Implementation Guide)

2.3 Payload handling for all SuperStream messages

To support consistency across the Superannuation Transaction Network (STN), payloads for messages should be embedded as compressed MIME attachments within the message structure. Gateway operators are expected to enforce this standard and may reject messages that do not comply.

3 Profiles

3.1 Multi-hop support

- a. An entity MAY employ the services of an ebMS Intermediary (see ebMS 3.0 Messaging Standard Advanced Features, Section 2).

3.2 Application Gateway profile

An entity participating in the STN must implement the Application Gateway profile.

The application gateway profile:

- a. supports one-way push for all gateway-to-gateway messaging;
- b. requires a permanent internet presence;
- c. supports digital signatures and encryption and digital signatures MUST be used in gateway-to-gateway interactions;
- d. MUST adhere to conformance requirements set out in **Section 6.1, The AS4 ebHandler Conformance Clause**³.
- e. requires compliance with all normative statements and requirements specified in **Section 4, Complementary Requirements for the AS4 Multi-Hop Profile**⁴.

Notes: an agreement for gateway-to-gateway messaging is set out at Appendix 1 of this document.

This profile assumes the application gateway acts as an Endpoint MSH (see ebMS 3.0 Advanced Features, Section 2.2) for all message exchanges. This should not be confused with the role of an ebMS3 Intermediary MSH (see ebMS 3.0 Advanced Features, Section 2.5).

³ See the AS4 Profile.

⁴ See the AS4 Profile.

4 Agreements

4.1 Default agreement

- a. The default agreement selected by an entity applies unless different rules and conventions are mutually agreed to by each entity to the transaction for use in carrying out the specified transaction.
- b. If mutual agreement is reached that agreement applies in place of the default agreement.
- c. If there is no mutual agreement between the parties the default agreement, as relevant to each entity, applies as and when:
 - i. an employer registers with a trustee of a superannuation entity or RSA provider for e-commerce purposes; or
 - ii. a trustee of a superannuation entity or RSA provider becomes a participating member of a gateway; or
 - iii. in the case of trustees of superannuation entities or RSA providers dealing with each other, they agree to select a common profile.
- d. Agreement SHOULD be recorded by the parties.

4.2 Processing modes

- a. A sender MUST ensure its message aligns with the agreed Processing Mode (P-Mode) before sending a message.

4.3 Variations to default agreement

- a. The P-Modes in the default agreement MAY be varied by mutual agreement between the parties; however, the resulting mutual agreement MUST continue to conform with the relevant profile defined in AS4.

Appendix 1: Agreement: Application Gateway Profile

P-Modes: Push/PKI

Parameter	Value	Comment
General		
PMode.Agreement	http://sbr.gov.au/agreement/Gateway/1.0/Push/PKI	
PMode.MEP	http://docs.oasis-open.org/ebxml-msg/ebMS/v3.0/ns/core/200704/oneWay	
PMode.MEPbinding	http://docs.oasis-open.org/ebxml-msg/ebMS/v3.0/ns/core/200704/push	
Protocol		
PMode.Protocol.Address	HTTPS 1.1	
PMode.Protocol.SOAPVersion	SOAP 1.2	
PMode.Protocol.AddActorOrRoleAttribute	true if using an ebMS 3.0 Intermediary, false otherwise	
Business Information		
PMode.BusinessInfo.MPC	http://sbr.gov.au/mpc/supera nnuation	
PMode[1].BusinessInfo.PayloadProfile.maxSize	1 GB (pre-compression)	
Compression		
Pmode[1].PayloadService.CompressionType	Application/gzip	
Error Handling		
PMode[1].ErrorHandling.Report.AsResponse	TRUE	
PMode[1].ErrorHandling.Report.ProcessErrorNotifyProducer	TRUE	
PMode[1].ErrorHandling.Report.DeliveryFailuresNotifyProducer	TRUE	

PMode[1].ErrorHandling.Report.MissingReceiptNotifyProducer	TRUE	
Security		
PMode[1].Security.WSSVersion	WSS 1.1	
PMode[1].Security.UsernameToken.userName	Not used because UsernameToken not present	
PMode[1].Security.UsernameToken.password	Not used because UsernameToken not present	
PMode[1].Security.UsernameToken.Digest	FALSE	
PMode[1].Security.UsernameToken.Nonce	FALSE	
PMode[1].Security.UsernameToken.Created	FALSE	
PMode[1].Security.PModeAuthorize	FALSE	
PMode[1].Security.SendReceipt	TRUE	Implemented in conjunction with PMode[1].ReceptionAwareness
Pmode[1].Security.SendReceipt.ReplyPattern	Response	
Pmode[1].Security.SendReceipt.NonRepudiation	FALSE	
PMode[1].Security.X509.Sign	TRUE	
PMode[1].Security.X509.Signature.Hash Function		SHA-256
PMode[1].Security.X509.Signature.Algorithm		RSA. Exact algorithm STN defined
PMode[1].Security.X509.Encryption.Encrypt	FALSE	All connections protected via SSL/TLS
Pmode[1].Security.SendReceipt.NonRepudiation	TRUE	
Reception Awareness & Duplication Detection		
PMode[1].ReceptionAwareness	TRUE	
PMode[1].ReceptionAwareness.Retry	TRUE	
PMode[1].ReceptionAwareness.Retry.Parameters	Maxretries=16,period=3hours	Maximum retry period is 48 hours with

		intervals to be STN Defined
PMode[1].DuplicateDetection	TRUE	
PMode[1].DuplicateDetection.Parameters	Checkwindow=Minimum of 48 hours	