

Business Message Standard (BMS)

for

**Pay/Control Totals
Buyer to Buyer's Financial Institution**

BRG: Pay

BMS Release: 2.0.2

Document Version: 2.0.2

Release Date: 31.03.2005

(dd.mm.cyyy)



Change Request Reference

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| Date of CR Submission to GSMP: | N/A |

Business Requirements Document (BRAD) Reference

| |
|---|
| BRAD Title: Business Requirements Document For Control Totals -Buyer to Buyer's Financial Institution |
| BRAD Date: 17.04.2003 |
| BRAD Version: 1.4 |

| |
|----------------------|
| BRAD Title: |
| BRAD Date: |
| BRAD Version: |

Document Summary

| | |
|---|--|
| Document Title: | BMS for Pay/Control Totals -Buyer to Buyer's Financial Institution |
| Document Version | 2.0.2 |
| Owner: | Pay BRG |
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| Targeted BMS Publication Version | 2.0.2 |

Document Change History

Note: During development include revisions in history. Upon Approval, eliminate revisions and include only delta from previous version.

| Date of Change | Version | Changed By | Reason for Change | Summary of Change | Model Build # |
|----------------|---------|--------------|-------------------------------------|--|---------------|
| 31.12.2004 | 2.0.0 | John Ryu | Initial Version in BMS/BSD template | Migration of BRD to standard BMS/BSD format | N/A |
| 31.03.2005 | 0.1.1 | Andrew Hearn | Context Update | Updated the context listed within the document | N/A |

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1 Business Solution

1.1 Business Domain View

1.1.1 Problem Statement / Business Need

As part of the financial checks and balances employed within a company, to insure that sufficient funds are available for payment by the financial institution, and in order to remove the possibility of the submission of fraudulent payment transactions, a validation process is needed to verify payment requests submitted to the paying financial institution.

Typically, payment transactions are generated by the accounts payable department of a company and forwarded to a financial institution for payment. As part of a company's control mechanism, a request has been made to have the capability of initiating a verification document to the financial institution, confirming the monetary value and count of payments to be made by the financial institution.

1.1.2 Objective

To supply the detail design of a Control Totals business transaction needed to meet the requirements of the referenced BRAD(s).

1.1.3 Audience

The audience of the standards would be any participant in the global supply chain. This would include retailers, manufacturers, service providers and other third parties.

1.1.4 Artefacts

| Artefact name | State | Artefact / State description |
|---------------|-------|------------------------------|
| | | |
| | | |
| | | |
| | | |

1.1.5 References

| Reference Name | Description |
|--|-------------|
| Business Requirements Document For Control Totals -Buyer to Buyer's Financial Institution, Version 1.4, 17.04.2003 | |

1.1.6 Acknowledgements

1.1.6.1 BRG Members

| Function | Name | Company / organisation |
|-------------|-----------------|-------------------------------------|
| BRG Member | Mickey Atkins | AHOLD Information Services |
| BRG Member | Janet Bailey | VF Corporation |
| BRG Member | Brian Barker | Wal-Mart Stores |
| BRG Member | Henry Gerstman | Century Business Credit Corporation |
| BRG Member | Joel Goldberg | Rosenthal & Rosenthal |
| BRG Member | Mark Gorman | HSBC Business Credit (USA) Inc |
| BRG Member | Nancy Laskero | Sears, Roebuck & Company |
| BRG Member | John Little | Hershey Foods |
| BRG Member | Marie Perry | Coca Cola Enterprises Inc. |
| BRG Member | Diane Pruitt | SunTrust Bank |
| BRG Member | Ian Rogers | Cap Gemini Ernst & Young |
| BRG Manager | Steve Rosenberg | UCC |

1.1.6.2 ITRG Members

| Function | Name | Company / organisation |
|-------------|------|------------------------|
| ITRG Chair | | |
| ITRG Member | | |
| ITRG Member | | |
| ITRG Member | | |
| ... | | |

1.1.6.3 Task/Project Group Participants (*where applicable*)

| Function | Name | Company / organisation |
|-------------|------|------------------------|
| Participant | | |
| Participant | | |
| Participant | | |
| ... | | |

1.1.6.4 Design Team Members

| Function | Name | Organisation |
|---------------------------|----------|------------------------------|
| Modeller | John Ryu | UCC Business Process Modeler |
| XML Technical Designer | | |
| EANCOM Technical Designer | | |
| Peer Reviewer | | |
| | | |

Business Solution Design

1.2 Business Context

| Context Category | Value(s) |
|----------------------|----------|
| Industry | All |
| Geopolitical | All |
| Product | All |
| Process | Pay |
| System Capabilities | EAN.UCC |
| Official Constraints | None |

1.3 Additional Technical Requirements Analysis

1.3.1 Technical Requirements (optional)

| Number | Statement | Rationale |
|--------|-----------|-----------|
| | None | |

1.4 Business Transaction View

1.4.1 Business Transaction Use Case Diagram

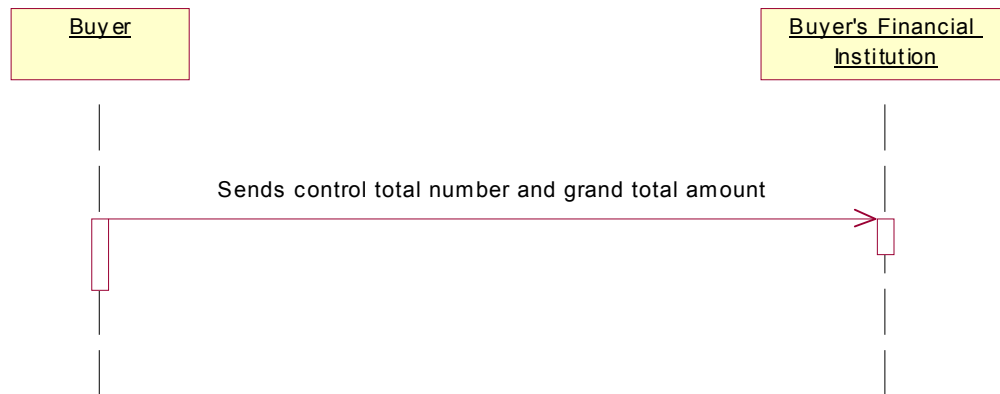
1.4.2 Use Case Description

| Use Case ID | UC-1 | | | | | | | |
|----------------------|--|---|--------|-------|---------------|---|-------|---|
| Use Case Name | Control Totals | | | | | | | |
| Use Case Description | Buyer sends to buyer's financial institution a Control Total amount and total number of the 'Settlement of Request for Payment(s)'. | | | | | | | |
| Actors (Goal) | The two general actors in the 'Control Totals-Buyer to Buyer's Financial Institution' process are the "buyer" and the "buyer's financial institution". Depending on the specific nature of the relationship other players may have a role, such as a third party. | | | | | | | |
| Performance Goals | N/A | | | | | | | |
| Preconditions | Buyer has sent one or more 'Settlement of Request for Payment(s)' to buyer's financial institution to process. | | | | | | | |
| Post conditions | None | | | | | | | |
| Scenario | <p>Begins when the buyer sends control total number and amount to buyer's financial institution.</p> <p>Continues with...</p> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td>Buyer</td><td>Buyer sends a control totals document to the financial institution, indicating the total number of 'Settlement of Request for Payment(s)' transmitted and grand total amount sent by the buyer (payer).</td></tr></table> <p>Ends when control total and amount is received by buyer's financial institution</p> | | Step # | Actor | Activity Step | 1 | Buyer | Buyer sends a control totals document to the financial institution, indicating the total number of 'Settlement of Request for Payment(s)' transmitted and grand total amount sent by the buyer (payer). |
| Step # | Actor | Activity Step | | | | | | |
| 1 | Buyer | Buyer sends a control totals document to the financial institution, indicating the total number of 'Settlement of Request for Payment(s)' transmitted and grand total amount sent by the buyer (payer). | | | | | | |
| Alternative Scenario | None | | | | | | | |
| Related Requirements | None | | | | | | | |
| Related Rules | None | | | | | | | |

1.4.3 Business Transaction Activity Diagram(s)

1.4.4 Business Transaction Sequence Diagram(s) (optional)

1.4.4.1 Send control total number and grand total amount



Business Solution Design

1.5 Information Model (including GDD Report)

1.5.1 Data Description:

(Contains list of attributes included in the model and the related requirement which led to its inclusion in the design.)). .

| CLASS (ABIE) | ATTRIBUTE (BBIE) | ASSOCIATION (ASBIE) | SECONDARY CLASS | RELATED REQUIREMENT |
|----------------------|-----------------------------|----------------------------|----------------------|--|
| ControlTotal | | | | Control Totals - Business Requirement Document Version 1.4 |
| | | | ControlTotalDetail | |
| | | | Document | |
| | | controlTotalIdentification | EntityIdentification | |
| | | buyer | PartyIdentification | |
| | | buyerFinancialInstitution | PartyIdentification | |
| ControlTotalDetail | | | | Control Totals - Business Requirement Document Version 1.4 |
| | amountSubmitted | | | |
| | batchIdentification | | | |
| | counter | | | |
| | transactionCountProcessed | | | |
| | workOfDate | | | |
| Document | | | | |
| | contentVersion | | | |
| | creationDate | | | |
| | documentStatus | | | |
| | documentStructureVersion | | | |
| | lastUpdateDate | | | |
| EntityIdentification | | | | |
| | uniqueCreatorIdentification | | | |
| | | contentOwner | PartyIdentification | |

Business Solution Design

| CLASS (ABIE) | ATTRIBUTE (BBIE) | ASSOCIATION (ASBIE) | SECONDARY CLASS | RELATED REQUIREMENT |
|---------------------|----------------------|---------------------|-------------------------------|---------------------|
| PartyIdentification | | | | |
| | globalLocationNumber | | | |
| | | | AdditionalPartyIdentification | |

1.5.2 GDD Report :

(Output from GDD should be pasted in this section.)

| CLASS (ABIE) | ATTRIBUTE (BBIE) | ASSOCIATION (ASBIE) | SECONDARY CLASS | Official Dictionary Entry Name | Definition | Multi- plicity |
|--------------|------------------|----------------------------|----------------------|--|---|-------------------|
| ControlTotal | | | | Control Total. Details | ControlTotal information confirming the monetary value and count of payments to be made by the financial institution. | |
| | | | ControlTotalDetail | Control Total. Association. Control Total Line | ControlTotal information confirming the monetary value and count of payments to be made by the financial institution. | 1..* |
| | | | Document | Control Total. Inheritance _ Association. Electronic _ Document | | 1..1 |
| | | controlTotalIdentification | EntityIdentification | Control Total. Association. Entity Identification | !! Provides a unique identification to the Control Total message. | 1..1 |
| | | buyer | PartyIdentification | Control Total. Buyer. Party Identification | n.a. | 1..1 |
| | | buyerFinancialInstitution | PartyIdentification | Control Total. Buyer Financial Institution. Party Identification | n.a. | 1..1 |

Business Solution Design

| CLASS (ABIE) | ATTRIBUTE (BBIE) | ASSOCIATION (ASBIE) | SECONDARY CLASS | Official Dictionary Entry Name | Definition | Multi- plicity |
|--------------------|--------------------------------|---------------------|-----------------|---|---|-------------------|
| ControlTotalDetail | | | | Control Total Line. De- tails | ControlTotal information con- firming the monetary value and count of payments to be made by the financial institution. | |
| | amountSubmitted | | | Control Total Line. Sub- mitted_ Amount. Amount | Monetary value of Settlement of Request for Payment transac- tions submitted for processing for a specific work-of date. | 1..1 |
| | batchIdentification | | | Control Total Line. Batch Identification. Identifier | Reference identification that identifies one or more transac- tions sent by the Buyer to the Financial Institution. | 0..1 |
| | counter | | | Control Total Line. Coun- ter. Integer_ Numeric | N/A | 1..1 |
| | transactionCount- Processed | | | Control Total Line. Transaction Count. Inte- ger_ Numeric | !! Count of transactions proc- essed for a specific work-of date. | 1..1 |
| | workOfDate | | | Control Total Line. Work Of_ Date. Date Time | The date to which the control totals refers. | 1..1 |
| Document | | | | Electronic_ Document. Details | Used to specify basic informa- tion about the content of the message including version number; creation date and time. | |

Business Solution Design

| CLASS (ABIE) | ATTRIBUTE (BBIE) | ASSOCIATION (ASBIE) | SECONDARY CLASS | Official Dictionary Entry Name | Definition | Multiplicity |
|----------------------|--------------------------|---------------------|-----------------|---|---|--------------|
| | contentVersion | | | Electronic_ Document. Content_ Version. Identifier | N/A | 0..1 |
| | creationDateTime | | | Electronic_ Document. Creation_ Date. Date Time | N/A | 1..1 |
| | documentStatus | | | Electronic_ Document. Status. Identifier | Indicates if the document is a copy or an original. | 1..1 |
| | documentStructureVersion | | | Electronic_ Document. Document Structure_ Version. Identifier | N/A | 0..1 |
| | lastUpdateDate | | | Electronic_ Document. Last Update_ Date. Date Time | N/A | 0..1 |
| EntityIdentification | | | | Entity Identification. Details | The unique identification of a document. | |

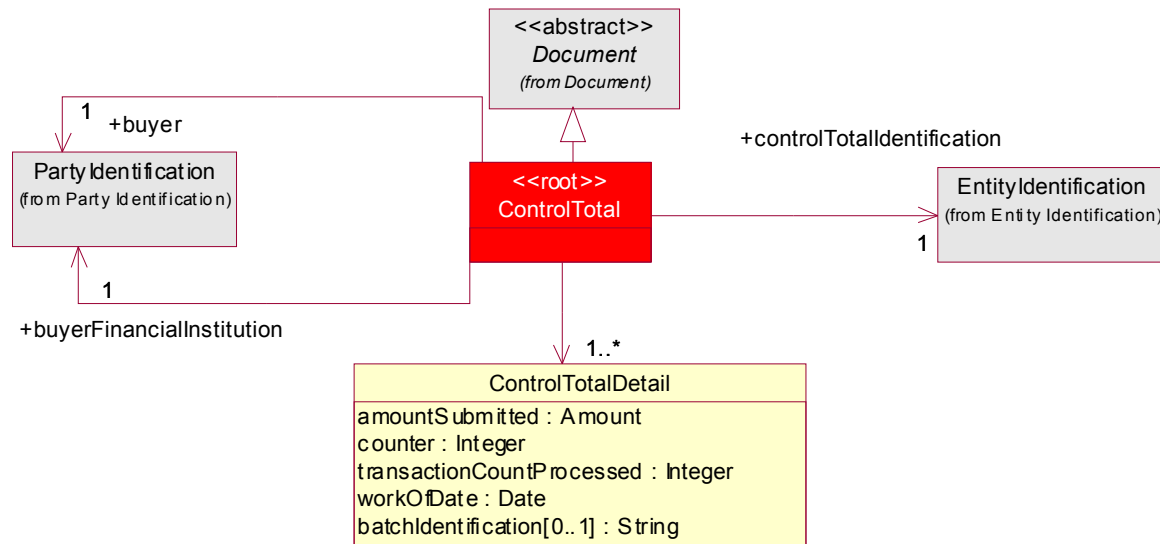
Business Solution Design

| CLASS (ABIE) | ATTRIBUTE (BBIE) | ASSOCIATION (ASBIE) | SECONDARY CLASS | Official Dictionary Entry Name | Definition | Multiplicity |
|---------------------|-----------------------------|---------------------|--------------------------------|---|--|--------------|
| | uniqueCreatorIdentification | | | Entity Identification. Identification. Identifier | N/A | 1..1 |
| | | contentOwner | PartyIdentification | Entity Identification. Content Owner. Party Identification | N/A | 1..1 |
| PartyIdentification | | | | Party Identification. Details | Unique location number identifying the Party for which the rest of the message defines. | |
| | globalLocation-Number | | | Party Identification. Primary_ Identification. GLN_ Identifier | !! The Global Location Number (GLN) is a structured Identification of a physical location, legal or functional entity within an enterprise. The GLN is the recommended primary party identifier. Each party identified in the trading relationship must have a primary party Identification. We recommend use of GLN. However, we have allowed for use of alternate party identification for transition. | 1..1 |
| | | | AdditionalParty-Identification | Party Identification. Additional. Non GLN_ Party Identification | N/A | 0..* |

Business Solution Design

1.5.3 Class Diagrams

1.5.3.1 Control Total



Business Solution Design

1.5.4 Code Lists

(Output from GDD should be pasted in this section.)

| Code List Name | Code List Description |
|----------------|-----------------------|
| | |
| Code Name | Code Description |
| | |
| | |
| | |
| | |
| | |
| | |

1.6 Business Document Example

1.7 Implementation Considerations

1.8 Testing

1.8.1 Pass / Fail Criteria

Unit testing criteria for business solution.

| Number | Test Criteria | Related Requirement | Design Element | Pass Criteria | Fail Criteria |
|--------|--|--------------------------|--------------------------|--|---|
| 1 | Reflects a specific business requirement from a related BRAD. For example: When goods are ordered, the buyer requires an answer from the suppliers that the order has been received. | BRAD Name.Version. Req # | Message, role, attribute | Result which determines that requirement has been satisfied: For example: Seller is able to create and send an Order Receipt Acknowledgement. | Result which shows that requirement has not been satisfied: For example: Buyer does not receive the Order Receipt Acknowledgement. |
| 2 | | | | | |
| 3 | | | | | |

1.8.2 Test Data

| Attribute | Value |
|---|---|
| Attribute Name. For example "orderQuantity" | Valid value associated with the attribute. For example "5". |
| | |
| | |
| | |
| | |

Business Solution Design

1.9 Appendices

1.10 Summary of Changes

(Details changes to BMS for each version by BMS Section)

| Change | BMS Ver- sion | Associated CR Number |
|--------|------------------|-------------------------|
| • | | |

2 XML Technical Solution ITRG Packet

The Technical Representation of the Business process is documented in a Technical Solution ITRG Packet containing all supplemental XML artefacts and is used by the Information Requirements Group (ITRG) to evaluate the solution. Upon approval from the Information Technical Requirements Group (ITRG), the Technical Solution ITRG Packet is updated to the Technical Solution Implementers Packet and published with the Business

Message Standard at:

http://www.ean-ucc.org/global_smp/ean.ucc_standards.htm.

Technical Solution ITRG Packet Content:

- Business Message Standard (BMS)
- ITRG Review Packet
 - Style Sheet: This HTML has been created using a Style Sheet that is a visual representation of the data. It is not an actual Style Sheet, but an ex-ample of what a Style Sheet may look like.
 - Instance File: The Instance File is an example of what the schema may look like when it includes live data. This can be used as comparison to a completed schema and can serve as a point of reference for development.
 - Technical Level GDD Report

Technical Solution Implementers Packet Content:

Contains all the message specific.XSD files required to implement

Example:

- AS2Envelope
- Command.xsd
- DocumentCommand.xsd
- Proxy.xsd
- ComponentLibrary.xsd

Both the Business Message Standard and the Implementers Packet are available during the ITRG Review Period in the working documents section of the ITRG eRoom:

http://eroom.uncouncil.org/eRoom/facility/InformationTechnicalAssessmentGroupITAG/0_14f7

All documents for review will be in this folder listed by name of the Change Request and Change Request Number. The Business Message Standard is not open for review, but offered as the basis for determining the suitability of the technical solutions.

This eRoom may be accessed by using the following User Name and Password:

User Name: guest

Password: guest