

# **Business Message Standard (BMS)**

**for**

**Pay/Settlement**

**BRG: Pay**

**BMS Release: 2.0**

**Document Version: 2.0.2**

**Release Date: 31.12.2004**

*(DD.MM.CCYY)*



### Change Request Reference

|  |     |
|--|-----|
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| <b>CR Submitter(s):</b>                        | N/A |
| <b>Date of CR Submission to GSMP:</b>          | N/A |

### Business Requirements Document (BRAD) Reference

|   |
|---|
| <b>BRAD Title:</b> Settlement – Business Requirement Document |
| <b>BRAD Date:</b> 27.08.2004                                  |
| <b>BRAD Version:</b> 1.3                                      |

|                      |
|----------------------|
| <b>BRAD Title:</b>   |
| <b>BRAD Date:</b>    |
| <b>BRAD Version:</b> |

### Document Summary

|   |   |
|---|---|
| <b>Document Title:</b>                  | BMS For Pay/Settlement  |
| <b>Document Version</b>                 | 2.0.2   |
| <b>Owner:</b>                           | Pay BRG   |
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| <b>BMS Template Version:</b>            | 1.0   |
| <b>Targeted BMS Publication Version</b> | 2.0   |

### Document Change History

| Date of Change | Version | Changed By     | Reason for Change                               | Summary of Change                           | Model Build # |
|----------------|---------|----------------|---|---|---------------|
| 31.12.2004     | 2.0.0   | Eric Kauz      | Initial Version in BMS/BSD template             | Migration of BRD to standard BMS/BSD format | N/A           |
| 31.12.2004     | 2.0.0   | John Ryu       | Added updated class diagram and GDD information |   |               |
| 27.04.2007     | 2.0.1   | Giovanni Biffi | Editorial Changes                               | Minor Editorial Changes to the Document     | N/A           |

# Business Message Standard

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## Business Solution Design

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### 1 Business Solution Design

#### 1.1 Business Domain View

##### 1.1.1 Problem Statement / Business Need

The goal of this Settlement use case is to send payment and remittance without adjustment, send remittance with adjustments and/or discounts, send payment and remittance with adjustment and/or discounts, send payment, send remittance without adjustments and/or discounts.

##### 1.1.2 Objective

To supply the detail design of a Settlement 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 N/A

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

##### 1.1.5 References

| Reference Name                                 | Description |
|--|-------------|
| Change Request : °1-000001                     |             |
| Five Scenario Worksheet                        |             |
| Business Message Standards Simpl-eb, July 2001 |             |

## Business Solution Design

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### 1.1.6 Acknowledgements

#### 1.1.6.1 BRG Members

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

### 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                  | Ryu, John | EAN.UCC      |
| XML Technical Designer    |           |              |
| EANCOM Technical Designer |           |              |
| Peer Reviewer             |           |              |
|                           |           |              |

# Business Solution Design

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## 1.2 Business Context

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

## 1.3 Additional Technical Requirements Analysis

### 1.3.1 Technical Requirements (optional)

*(User Interface, Security, Performance, Quality, etc.)*

| Number | Statement | Rationale |
|--------|-----------|-----------|
|        |           |           |

# Business Solution Design

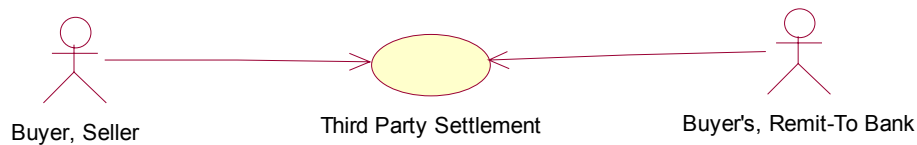
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## 1.4 Business Transaction View

This section identifies business requirements and functions for Settlement. This section of the document will walk through the Settlement use case analysis.

### 1.4.1 Business Transaction Use Case Diagram



#### 1.4.1.1 Use Case Description

|                             |   |
|-----------------------------|---|
| <b>Use Case ID</b>          | UC-1  |
| <b>Use Case Name</b>        | Add Settlement of request for payment   |
| <b>Use Case Description</b> | The goal of this Settlement use case is to send payment and remittance without adjustment, send remittance with adjustments and/or discounts, send payment and remittance with adjustment and/or discounts, send payment, send remittance without adjustments and/or discounts.         |
| <b>Actors (Goal)</b>        | <ul style="list-style-type: none"><li>The primary actors in the 'Settlement' process are the trading partners, comprised of Buyer, Seller and Remit-To, along with the Buyer's Bank, Seller's Bank and Remit-To's Bank.</li></ul>   |
| <b>Performance Goals</b>    | <i>Goals related to technical requirements</i><br><b>None</b>   |
| <b>Preconditions</b>        | The Settlement process begins when the buyer has received Request for Payment(s) from Seller or Remit-To party. The Seller has already advised the Buyer that the payment should be made to the Remit-To party.   |
| <b>Post conditions</b>      | Buyer sends to Seller or Remit-To party one of the five following scenarios. <ol style="list-style-type: none"><li>1. Payment and Remittance</li><li>2. Payment and Remittance with Adjustment</li><li>3. Remittance</li><li>4. Remittance with Adjustment</li><li>5. Payment</li></ol> |



## Business Solution Design

| <p><b>Scenario</b></p>             | <p><b>Begins when</b> Buyer has received a Request for Payment from the Seller and processes it..</p> <p><b>Continues with...</b></p> <table border="0"> <thead> <tr> <th></th> <th style="text-align: center;"><b>Step #</b></th> <th style="text-align: center;"><b>Actor</b></th> <th style="text-align: center;"><b>Activity Step</b></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">1</td> <td>Buyer</td> <td>Receives a Request for Payment from the Seller.</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> <td>Buyer</td> <td>receives request for payment.</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> <td>Buyer</td> <td>reconciles request for payment.</td> </tr> <tr> <td></td> <td style="text-align: center;">4</td> <td>Buyer</td> <td>authorizes payment amount, including remittance detail if necessary.</td> </tr> <tr> <td></td> <td style="text-align: center;">5</td> <td>Buyer</td> <td>instructs Buyer's Bank with payment amount and/or remittance detail and adjustment.<br/>5.1. If payment through a third party, the Buyer send a copy of Settlement document to the Seller.</td> </tr> <tr> <td></td> <td style="text-align: center;">6</td> <td>Buyer's Bank</td> <td>receives instructions for payment amount and/or remittance detail.</td> </tr> <tr> <td></td> <td style="text-align: center;">7</td> <td>Buyer's Bank</td> <td>sends payment (and remittance detail) to Seller's, Remit-To's Bank.</td> </tr> <tr> <td></td> <td style="text-align: center;">8</td> <td>Seller's Bank</td> <td>receives payment and remittance detail from Buyer's Bank.</td> </tr> <tr> <td></td> <td style="text-align: center;">9</td> <td>Seller's Bank or Remit-To's Bank</td> <td>advises Seller or Remit-To party of payment (and remittance detail) received from Buyer's Bank.</td> </tr> <tr> <td></td> <td style="text-align: center;">10</td> <td>Seller</td> <td>receives notification of payment and remittance detail from Seller's Bank.</td> </tr> </tbody> </table> <p><b>Ends when...</b> the buyer sends payment and remittance without adjustments or discounts, payment and remittance with adjustments or discounts, remittance only, remittance with adjustments or payment only to the Seller.</p> |                                  | <b>Step #</b>   | <b>Actor</b> | <b>Activity Step</b> |  | 1 | Buyer | Receives a Request for Payment from the Seller. |  | 2 | Buyer | receives request for payment. |  | 3 | Buyer | reconciles request for payment. |  | 4 | Buyer | authorizes payment amount, including remittance detail if necessary. |  | 5 | Buyer | instructs Buyer's Bank with payment amount and/or remittance detail and adjustment.<br>5.1. If payment through a third party, the Buyer send a copy of Settlement document to the Seller. |  | 6 | Buyer's Bank | receives instructions for payment amount and/or remittance detail. |  | 7 | Buyer's Bank | sends payment (and remittance detail) to Seller's, Remit-To's Bank. |  | 8 | Seller's Bank | receives payment and remittance detail from Buyer's Bank. |  | 9 | Seller's Bank or Remit-To's Bank | advises Seller or Remit-To party of payment (and remittance detail) received from Buyer's Bank. |  | 10 | Seller | receives notification of payment and remittance detail from Seller's Bank. |
|------------------------------------|--|----------------------------------|---|--------------|----------------------|--|---|-------|---|--|---|-------|-------------------------------|--|---|-------|---------------------------------|--|---|-------|--|--|---|-------|---|--|---|--------------|--|--|---|--------------|---|--|---|---------------|---|--|---|----------------------------------|---|--|----|--------|--|
|                                    | <b>Step #</b>  | <b>Actor</b>                     | <b>Activity Step</b>  |              |                      |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |
|                                    | 1  | Buyer                            | Receives a Request for Payment from the Seller.   |              |                      |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |
|                                    | 2  | Buyer                            | receives request for payment.   |              |                      |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |
|                                    | 3  | Buyer                            | reconciles request for payment.   |              |                      |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |
|                                    | 4  | Buyer                            | authorizes payment amount, including remittance detail if necessary.  |              |                      |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |
|                                    | 5  | Buyer                            | instructs Buyer's Bank with payment amount and/or remittance detail and adjustment.<br>5.1. If payment through a third party, the Buyer send a copy of Settlement document to the Seller. |              |                      |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |
|                                    | 6  | Buyer's Bank                     | receives instructions for payment amount and/or remittance detail.  |              |                      |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |
|                                    | 7  | Buyer's Bank                     | sends payment (and remittance detail) to Seller's, Remit-To's Bank.   |              |                      |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |
|                                    | 8  | Seller's Bank                    | receives payment and remittance detail from Buyer's Bank.   |              |                      |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |
|                                    | 9  | Seller's Bank or Remit-To's Bank | advises Seller or Remit-To party of payment (and remittance detail) received from Buyer's Bank.   |              |                      |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |
|                                    | 10   | Seller                           | receives notification of payment and remittance detail from Seller's Bank.  |              |                      |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |
| <p><b>Alternative Scenario</b></p> | <p><i>(any alternatives to the above scenario)</i></p> <p><b>None</b></p> <table border="0"> <thead> <tr> <th></th> <th style="text-align: center;"><b>Step #</b></th> <th style="text-align: center;"><b>Actor</b></th> <th style="text-align: center;"><b>Activity Step</b></th> </tr> </thead> <tbody> </tbody> </table>  |                                  | <b>Step #</b>   | <b>Actor</b> | <b>Activity Step</b> |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |
|                                    | <b>Step #</b>  | <b>Actor</b>                     | <b>Activity Step</b>  |              |                      |  |   |       |   |  |   |       |                               |  |   |       |                                 |  |   |       |  |  |   |       |   |  |   |              |  |  |   |              |   |  |   |               |   |  |   |                                  |   |  |    |        |  |

## Business Solution Design

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|                             |  |
|-----------------------------|--|
|                             |  |
| <b>Related Requirements</b> | <b>None</b>  |
| <b>Related Rules</b>        | <i>Business rules associated with use case.</i><br><b>None</b> |

## Business Solution Design

### 1.5 Information Model (including GDD Report)

#### 1.5.1 Data Description

| Class (ABIE)              | Attribute (BBIE)              | Association (ASBIE)               | Secondary Class           | Related Requirements                     |
|---------------------------|-------------------------------|-----------------------------------|---------------------------|--|
| AdjustmentAndDiscount     |                               |                                   |                           | BRD for Settlement, V 1.3 27 August 2004 |
|                           | amount                        |                                   |                           | BRD for Settlement, V 1.3 27 August 2004 |
|                           |                               | debitCreditMessageAdviceReference | AdjustmentReason          |  |
|                           |                               | none                              | AlternatePaymentReference |  |
|                           |                               | adjustmentIdentification          | SettlementReference       |  |
| AdjustmentReason          |                               |                                   |                           | BRD for Settlement, V 1.3 27 August 2004 |
|                           | messageReason                 |                                   |                           | BRD for Settlement, V 1.3 27 August 2004 |
|                           | sourceCode                    |                                   |                           | BRD for Settlement, V 1.3 27 August 2004 |
| AlternatePaymentReference |                               |                                   |                           | BRD for Settlement, V 1.3 27 August 2004 |
|                           | alternatePaymentReferenceType |                                   |                           |  |
|                           | value                         |                                   |                           |  |
| Document                  |                               |                                   |                           | BRD for Settlement, V 1.3 27 August 2004 |
|                           | contentVersion                |                                   |                           |  |
|                           | creationDateTime              |                                   |                           |  |
|                           | documentStatus                |                                   |                           |  |
|                           | documentStructureVersion      |                                   |                           |  |
|                           | lastUpdateDate                |                                   |                           |  |
| EntityIdentification      |                               |                                   |                           | BRD for Settlement, V 1.3 27 August 2004 |

## Business Solution Design

| Class (ABIE)                    | Attribute (BBIE)            | Association (ASBIE)                | Secondary Class               | Related Requirements                     |
|---------------------------------|-----------------------------|------------------------------------|-------------------------------|--|
|                                 | uniqueCreatorIdentification |                                    |                               |  |
|                                 |                             | contentOwner                       | PartyIdentification           |  |
| FinancialInstitutionInformation |                             |                                    |                               | BRD for Settlement, V 1.3 27 August 2004 |
|                                 | accountName                 |                                    |                               |  |
|                                 | branch                      |                                    |                               |  |
|                                 |                             | none                               | AccountNumber                 |  |
|                                 |                             | financialInstitutionNameAndAddress | NameAndAddress                |  |
|                                 |                             | none                               | RoutingNumber                 |  |
|                                 |                             | additionalFinancialInformation     | MultiDescription              |  |
| PartyIdentification             |                             |                                    |                               | BRD for Settlement, V 1.3 27 August 2004 |
|                                 | globalLocationNumber        |                                    |                               |  |
|                                 |                             | none                               | AdditionalPartyIdentification |  |
| PaymentInformation              |                             |                                    |                               | BRD for Settlement, V 1.3 27 August 2004 |
|                                 | paymentEffectiveDate        |                                    |                               |  |
|                                 | settlementAmount            |                                    |                               |  |
|                                 | transactionHandlingType     |                                    |                               |  |
|                                 |                             | none                               | PaymentMethod                 |  |
| PaymentMethod                   |                             |                                    |                               | BRD for Settlement, V 1.3 27 August 2004 |
|                                 | paymentMethodType           |                                    |                               |  |
|                                 | AutomatedClearingHouse      |                                    |                               |  |
| RequestForPaymentInformation    |                             |                                    |                               | BRD for Settlement, V 1.3 27 August 2004 |
|                                 | originalAmount              |                                    |                               |  |
|                                 |                             | requestForPaymentIdentification    | SettlementReference           |  |
| Settlement                      |                             |                                    |                               | BRD for Settlement, V 1.3 27             |

## Business Solution Design

| Class (ABIE)        | Attribute (BBIE)    | Association (ASBIE)        | Secondary Class                 | Related Requirements                     |
|---------------------|---------------------|----------------------------|---------------------------------|--|
|                     |                     |                            |                                 | August 2004                              |
|                     | batchIdentification |                            |                                 |  |
|                     |                     | none                       | Document                        |  |
|                     |                     | settlementIdentification   | EntityIdentification            |  |
|                     |                     | buyerFinancialInformation  | FinancialInstitutionInformation |  |
|                     |                     | sellerFinancialInformation | FinancialInstitutionInformation |  |
|                     |                     | none                       | PaymentInformation              |  |
|                     |                     | none                       | SettlementParty                 |  |
| SettlementLineItem  |                     |                            |                                 | BRD for Settlement, V 1.3 27 August 2004 |
|                     | amountPaid          |                            |                                 |  |
|                     |                     | none                       | AdjustmentAndDiscount           |  |
|                     |                     | none                       | LineItem                        |  |
|                     |                     | none                       | RequestForPaymentInformation    |  |
| SettlementParty     |                     |                            |                                 | BRD for Settlement, V 1.3 27 August 2004 |
|                     |                     | buyer                      | PartyIdentification             |  |
|                     |                     | buyersBank                 | PartyIdentification             |  |
|                     |                     | remit-toBank               | PartyIdentification             |  |
|                     |                     | remitTo                    | PartyIdentification             |  |
|                     |                     | seller                     | PartyIdentification             |  |
|                     |                     | sellersBank                | PartyIdentification             |  |
| SettlementReference |                     |                            |                                 | BRD for Settlement, V 1.3 27 August 2004 |
|                     | creationDate        |                            |                                 |  |
|                     |                     | reference                  | EntityIdentification            |  |

## Business Solution Design

### 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-<br>plicity |
|-----------------------|------------------|-----------------------------------|---------------------------|--|---|-------------------|
| AdjustmentAndDiscount |                  |                                   |                           | Payment Adjustment. Details  | Monetary amount of adjustment and discount including currency.  |                   |
|                       | amount           |                                   |                           | Payment Adjustment. Amount. Amount   | Monetary amount of adjustment including currency.   | 1..1              |
|                       |                  | debitCreditMessageAdviceReference | AdjustmentReason          | Payment Adjustment. Choice_ Association. Adjustment Reason                   | !! Adjustment Reason may be used to qualify the Adjustment.   | 1..1              |
|                       |                  | None                              | AlternatePaymentReference | Payment Adjustment. Choice_ Association. Alternate Payment_ Entity Reference | None  | 1..1              |
|                       |                  | adjustmentIdentification          | SettlementReference       | Payment Adjustment. Association. Settlement_ Entity Reference                | Unique identifier issued used for identifying the payment transaction (Settlement of Request for Payment). A trace or control number. | 0..1              |
| AdjustmentReason      |                  |                                   |                           | Adjustment Reason. Details   | !! Adjustment Reason may be used to qualify the Adjustment.   |                   |
|                       | messageReason    |                                   |                           | Adjustment Reason. Choice_ Message Reason. Message Reason_ Code              | !! Message reasons extracted from ASC X12 EDI, representing mes-  | 1..1              |

## Business Solution Design

| Class (ABIE)              | Attribute (BBIE)              | Association (ASBIE) | Secondary Class | Official Dictionary Entry Name                                     | Definition   | Multiplicity |
|---------------------------|-------------------------------|---------------------|-----------------|--|--|--------------|
|                           |                               |                     |                 |  | sage reasons used in the Uniform Code Council's Uniform Communications Standard (UCS) and Voluntary Interindustry Communication Standard (VICS) implementation guidelines. |              |
|                           | sourceCode                    |                     |                 | Adjustment Reason. Choice_ Source Code. Source_ Code               |  | 1..1         |
| AlternatePaymentReference |                               |                     |                 | Alternate Payment_ Entity Reference. Details                       | n.a.   |              |
|                           | alternatePaymentReferenceType |                     |                 | Alternate Payment_ Entity Reference. Type. Payment Reference_ Code |  | 1..1         |
|                           | value                         |                     |                 | Alternate Payment_ Entity Reference. Identification. Identifier    |  | 1..1         |
| Document                  |                               |                     |                 | Electronic_ Document. Details                                      | Used to specify basic information about the content of the message including version number, creation date and time.   |              |
|                           | contentVersion                |                     |                 | Electronic_ Document. Content_ Version. Identifier                 | Not defined in BRD   | 0..1         |
|                           | creationDateTime              |                     |                 | Electronic_ Document. Creation_ Date. Date Time                    | Not defined in BRD   | 1..1         |

## Business Solution Design

| Class (ABIE)                    | Attribute (BBIE)            | Association (ASBIE)                 | Secondary Class     | Official Dictionary Entry Name                                | Definition   | Multi-<br>plicity |
|---------------------------------|-----------------------------|-------------------------------------|---------------------|---|--|-------------------|
|                                 | documentStatus              |                                     |                     | Electronic_ Document. Status. Identifier                      | Indicates if the document is a copy or an original.                                  | 1..1              |
|                                 | documentStructureVersion    |                                     |                     | Electronic_ Document. Document Structure_ Version. Identifier | Not defined in BRD   | 0..1              |
|                                 | lastUpdateDate              |                                     |                     | Electronic_ Document. Last Update_ Date. Date Time            | Not defined in BRD   | 0..1              |
| EntityIdentification            |                             |                                     |                     | Entity Identification. Details                                | The unique identification of a document.   |                   |
|                                 | uniqueCreatorIdentification |                                     |                     | Entity Identification. Identification. Identifier             | N/A  | 1..1              |
|                                 |                             | contentOwner                        | PartyIdentification | Entity Identification. Content Owner. Party Identification    | None   | 1..1              |
| FinancialInstitutionInformation |                             |                                     |                     | Financial Institution. Details                                | Information that is used for identifying the FI(s) that will process the information |                   |
|                                 | accountName                 |                                     |                     | Financial Institution. Account_ Name. Text                    | Name of account owner of originating transaction.                                    | 1..1              |
|                                 | branch                      |                                     |                     | Financial Institution. Branch_ Name. Text                     | Branch identification for account holder's financial institution.                    | 0..1              |
|                                 |                             | None                                | AccountNumber       | Financial Institution. Association. Financial_ Account        | None   | 0..1              |
|                                 |                             | financialInstitutionName-AndAddress | NameAndAddress      | Financial Institution. Association. Party Ad-                 | None   | 0..1              |



## Business Solution Design

| Class (ABIE)        | Attribute (BBIE)        | Association (ASBIE)            | Secondary Class               | Official Dictionary Entry Name  | Definition  | Multiplicity |
|---------------------|-------------------------|--------------------------------|-------------------------------|---|---|--------------|
|                     |                         |                                |                               | dress Group   |   |              |
|                     |                         | None                           | RoutingNumber                 | Financial Institution. Association. Financial_Routing                             | None  | 0..1         |
|                     |                         | additionalFinancialInformation | MultiDescription              | Financial Institution. Description. Multi-language Description                    | na  | 0..1         |
| PartyIdentification |                         |                                |                               | Party Identification. Details   | Unique location number identifying the Party for which the rest of the message defines. |              |
|                     | globalLocationNumber    |                                |                               | Party Identification. Primary_ Identification. GLN_ Identifier                    |   | 1..1         |
|                     |                         | None                           | AdditionalPartyIdentification | Party Identification. Additional. Non GLN_ Party Identification                   | None  | 0..*         |
| PaymentInformation  |                         |                                |                               | Settlement Summary. Details   | n.a.  |              |
|                     | paymentEffectiveDate    |                                |                               | Settlement Summary. Effective_ Payment Date. Date Time                            | N/A   | 0..1         |
|                     | settlementAmount        |                                |                               | Settlement Summary. Amount. Amount  | N/A   | 1..1         |
|                     | transactionHandlingType |                                |                               | Settlement Summary. Transaction_ Handling Instruction. Transaction Handling_ Code | !! Code that refers to the senders action.  | 1..1         |
|                     |                         | None                           | PaymentMethod                 | Settlement Summary. Association. Payment Method                                   | Identifying a means of payment.   | 1..1         |

## Business Solution Design

| Class (ABIE)                 | Attribute (BBIE)        | Association (ASBIE)             | Secondary Class                 | Official Dictionary Entry Name                                | Definition  | Multiplicity |
|------------------------------|-------------------------|---------------------------------|---------------------------------|---|---|--------------|
| PaymentMethod                |                         |                                 |                                 | Payment Method. Details                                       | n.a.  |              |
|                              | PaymentMethodType       |                                 |                                 | Payment Method. Choice_. Transaction_ Payment Method          | None  | 1..1         |
|                              | AutomatedClearing-House |                                 |                                 | Payment Method. Choice_. ACH_ Payment Method                  | None  | 1..1         |
| RequestForPaymentInformation |                         |                                 |                                 | Referred_ Invoice Line. Details                               | n.a.  |              |
|                              | originalAmount          |                                 |                                 | Referred_ Invoice Line. Original_ Amount. Amount              | original Request for Payment amount currency  | 0..1         |
|                              |                         | requestForPaymentIdentification | SettlementReference             | Referred_ Invoice Line. Invoice. Settlement_ Entity Reference | None  | 1..1         |
| Settlement                   |                         |                                 |                                 | Settlement. Details   | Identifies business requirements and functions for Settlement.                        |              |
|                              | batchIdentification     |                                 |                                 | Settlement. Batch Identification. Identifier                  | N/A   | 0..1         |
|                              |                         | None                            | Document                        | Settlement. Inheritance_ Association. Electronic_ Document    | None  | 1..1         |
|                              |                         | settlementIdentification        | EntityIdentification            | Settlement. Association. Entity Identification                | The unique identification of a document.  | 1..1         |
|                              |                         | buyerFinancialInformation       | FinancialInstitutionInformation | Settlement. Buyer. Financial Institution                      | Information that is used for identifying the FI(s) that will process the information. | 0..1         |
|                              |                         | sellerFinancialInformation      | FinancialInstitutionInformation | Settlement. Seller. Financial Institution                     | Information that is used for identifying the FI(s)                                    | 0..1         |

## Business Solution Design

| Class (ABIE)       | Attribute (BBIE) | Association (ASBIE) | Secondary Class              | Official Dictionary Entry Name                                       | Definition   | Multiplicity |
|--------------------|------------------|---------------------|------------------------------|--|--|--------------|
|                    |                  |                     |                              |  | that will process the information                              |              |
|                    |                  | None                | PaymentInformation           | Settlement. Association. Settlement Summary                          | None   | 1..1         |
|                    |                  | None                | SettlementParty              | Settlement. Association. Settlement_ Party Group                     | None   | 1..*         |
| SettlementLineItem |                  |                     |                              | Settlement Line. Details   | !! Unique identifier for this line's information detail        |              |
|                    | amountPaid       |                     |                              | Settlement Line. Paid_ Amount. Amount                                | N/A  | 0..1         |
|                    |                  | None                | AdjustmentAndDiscount        | Settlement Line. Association. Payment Adjustment                     | Monetary amount of adjustment and discount including currency. | 0..*         |
|                    |                  | None                | LineItem                     | Settlement Line. Inheritance_ Association. Line Item                 | None   | 1..1         |
|                    |                  | None                | RequestForPaymentInformation | Settlement Line. Association. Referred_ Invoice Line                 | None   | 1..1         |
| SettlementParty    |                  |                     |                              | Settlement_ Party Group. Details                                     | n.a.   |              |
|                    |                  | buyer               | PartyIdentification          | Settlement_ Party Group. Choice_ Buyer. Party Identification         | None   | 1..1         |
|                    |                  | buyersBank          | PartyIdentification          | Settlement_ Party Group. Choice_ Buyers Bank. Party Identification   | None   | 1..1         |
|                    |                  | remit-toBank        | PartyIdentification          | Settlement_ Party Group. Choice_ Remit To Bank. Party Identification | None   | 1..1         |

## Business Solution Design

| Class (ABIE)        | Attribute (BBIE) | Association (ASBIE) | Secondary Class      | Official Dictionary Entry Name                                      | Definition | Multiplicity |
|---------------------|------------------|---------------------|----------------------|---|------------|--------------|
|                     |                  | remitTo             | PartyIdentification  | Settlement_ Party Group. Choice_ Remit To. Party Identification     | None       | 1..1         |
|                     |                  | seller              | PartyIdentification  | Settlement_ Party Group. Choice_ Seller. Party Identification       | None       | 1..1         |
|                     |                  | sellersBank         | PartyIdentification  | Settlement_ Party Group. Choice_ Sellers Bank. Party Identification | None       | 1..1         |
| SettlementReference |                  |                     |                      | Settlement_ Entity Reference. Details                               | n.a.       |              |
|                     | creationDate     |                     |                      | Settlement_ Entity Reference. Date. Date Time                       |            | 0..1         |
|                     |                  | reference           | EntityIdentification | Settlement_ Entity Reference. Association. Entity Identification    | None       | 1..1         |



## Business Solution Design

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### 1.5.4 Code Lists

| Code List Name                          | Code List Description                   |
|---|---|
| TransactionHandlingIdentifier           | Code that refers to the senders action. |
| Code Name                               | Code Description                        |
| C_PAYMENT_ACCOMPANIES_REMITTANCE_ADVICE | N/A                                     |
| D_MAKE_PAYMENT_ONLY                     | N/A                                     |
| I_REMITTANCE_INFORMATION_ONLY           | N/A                                     |

| Code List Name          | Code List Description                                      |
|-------------------------|--|
| PaymentMethod           | Method of funds transfer between parties for this message. |
| Code Name               | Code Description   |
| BANK_CHEQUE             | N/A  |
| BANK_GIRO               | N/A  |
| BANKERS_DRAFT           | N/A  |
| BOOKENTRY_CREDIT        | N/A  |
| BOOKENTRY_DEBIT         | N/A  |
| BOP                     | N/A  |
| CASH                    | N/A  |
| CERTIFIED_CHEQUE        | N/A  |
| CHEQUE                  | N/A  |
| CREDIT_CARD             | N/A  |
| DEBIT_CARD              | N/A  |
| ELECTRONIC_CREDIT-ACH   | N/A  |
| ELECTRONIC_DEBIT_ACH    | N/A  |
| FED_WIRE_NON_REPETITIVE | N/A  |
| FED_WIRE_REPETITIVE     | N/A  |
| INTERNATIONAL_WIRE      | N/A  |
| LETTER_OF_CREDIT        | N/A  |

## Business Solution Design

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|                      |     |
|----------------------|-----|
| POSTGIRO             | N/A |
| WIRE_TRANSFER_CREDIT | N/A |

| Code List Name | Code List Description |
|----------------|-----------------------|
| PaymentFormat  | N/A                   |
| Code Name      | Code Description      |
| CCD            | N/A                   |
| CCP            | N/A                   |
| CTX            | N/A                   |
| PPD            | N/A                   |
| PPP            | N/A                   |

| Code List Name                           | Code List Description   |
|--|---|
| AlternatePaymentReference-List           | Mandatory if alternate payment reference class is used to qualify the adjustment. |
| Code Name                                | Code Description  |
| DEPARTMENT_NUMBER                        | N/A   |
| LOCATION_NUMBER                          | N/A   |
| OTHER_REQUEST_FOR_PAYMENT_IDENTIFICATION | N/A   |
| PRO_NUMBER                               | N/A   |
| RETURN_GOODS_AUTHORIZATION_NUMBER        | N/A   |
| SELLER_AUTHORIZATION_ALLOWANCE_NUMBER    | N/A   |
| STORE_NUMBER                             | N/A   |

## Business Solution Design

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### 1.6 Business Document Example

N/A

### 1.7 Implementation Considerations

N/A

### 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      |               |                     |                |               |               |
| 2      |               |                     |                |               |               |
| 3      |               |                     |                |               |               |

#### 1.8.2 Test Data

### 1.9 Appendices

#### 1.10 Summary of Changes

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

| Change | BMS Version | 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](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](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