



Business Message Standard (BMS) Promotional Trade Item Extension

BMS Release: 2.3, BRG Name: Align

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Business Requirements Document (BRAD) Reference

| BRAD Title: | BRD Date: | BRAD Version |
|--|-------------|--------------|
| Data Alignment for Free Quantity Promotional Trade Items | 29-Nov-2005 | 29-Nov-2005 |

Document Change History

| Date of Change | Version | Changed By | Reason for Change | Summary of Change | Model Build # |
|----------------|---------|----------------|--|--------------------------------------|---------------|
| 20-Mar-2006 | 0.0.1 | Brian Bennett | Add initial Requirements | | |
| 09-Apr-2007 | 0.0.2 | Giovanni Biffi | Code Value added to the Promotional Type Code List | Change corresponding to the GDSN MR1 | |
| 14-Oct-2008 | 0.0.3 | Eric Kauz | Template Update | | |

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1. Business Domain View

1.1. Problem Statement / Business Need

Having free quantity promotional trade items is a very common business practice. During a limited period of time, promotional trade items offer free quantities either included in the regular quantity or added to the regular quantity.

There is a need to give information on these promotional trade items and to be able to link them to the standard trade items they replace or complement.

1.2. Objective

This set of information will enable retailers to properly merchandise the promotional trade items and to calculate the impact and benefits of the promotional offer.

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.

1.4. References

| Reference Name | Description |
|--|---------------------------|
| Business Requirements Analysis Document for Data Alignment for Free Quantity Promotional Trade Items | |
| Business Requirements Analysis Document For GDSN Item Maintenance | Release 1: Version: 0.0.2 |

1.5. Acknowledgements

The following is a list of individuals (and their companies) who participated in the creation, review and approval of this BMS.

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| Function | Name | Company / Organisation |
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| ITRG Member | | |

1.5.3. Task/Project Group Participants (*where applicable*)

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| Peer Reviewer | Eric Kauz | GS1 |

2. Business Context

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

3. Additional Technical Requirements Analysis

This section documents the analysis of additional technical requirements.

3.1. Technical Requirements (optional)

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

4. Business Transaction View

4.1. Business Transaction Use Case Diagram

Not Applicable

4.2. Use Case Description

| Use Case ID | UC-1 | | | | | | | | | | | | | | | | | | |
|----------------------|--|---|--|---|---|----|--|----|---|---|---|----|---|----|---|----|---|----|--|
| Use Case Name | Align Item (Promotional Trade Item) | | | | | | | | | | | | | | | | | | |
| Use Case Description | This Use Case is an extension of the Align Item Use Case. | | | | | | | | | | | | | | | | | | |
| Actors (Goal) | See Use Case For Align Trade Item | | | | | | | | | | | | | | | | | | |
| Performance Goals | See Use Case For Align Trade Item | | | | | | | | | | | | | | | | | | |
| Preconditions | See Use Case For Align Trade Item | | | | | | | | | | | | | | | | | | |
| Post conditions | See Use Case For Align Trade Item | | | | | | | | | | | | | | | | | | |
| Scenario | See Use Case For Align Trade Item | | | | | | | | | | | | | | | | | | |
| Alternative Scenario | Not Applicable | | | | | | | | | | | | | | | | | | |
| Related Requirements | See related data requirements in associated BRAD | | | | | | | | | | | | | | | | | | |
| Related Rules | <table border="1"> <tbody> <tr> <td>1</td> <td>The GTIN of the standard trade item is populated for simple free quantity promotional trade items and for free quantity promotional multi-packs.</td> </tr> <tr> <td>2</td> <td>If it exists, the associated trade item identification must already be in the home data pool in order to ensure data integrity.</td> </tr> <tr> <td>3.</td> <td>The GTIN of the associated standard trade item is only applicable to consumer units.</td> </tr> <tr> <td>4.</td> <td>If the GTIN of the standard trade item is provided then the type of association is mandatory.</td> </tr> <tr> <td>5</td> <td>The unit of measure used for the free quantity must be the same as the unit of measure of the net content. If the free quantity is expressed as a percentage on the package (for example, "15% free") it must be converted into a quantity expressed in the same unit of measure as the net content in the message.</td> </tr> <tr> <td>6.</td> <td>The free quantity is populated for simple free quantity promotional trade items (except the sample promotions) and for free quantity promotional multi-packs.</td> </tr> <tr> <td>7.</td> <td>The free quantity is only applicable to consumer units.</td> </tr> <tr> <td>8.</td> <td>The promotional offer description is only applicable to consumer units.</td> </tr> <tr> <td>9.</td> <td>The free quantity of next lower level trade item is only used for free quantity combination packs. If the free quantity promotional trade item is simple or is a multi-pack the free quantity is populated. In the case a sample promotion is described, there is no free quantity provided.</td> </tr> </tbody> </table> | 1 | The GTIN of the standard trade item is populated for simple free quantity promotional trade items and for free quantity promotional multi-packs. | 2 | If it exists, the associated trade item identification must already be in the home data pool in order to ensure data integrity. | 3. | The GTIN of the associated standard trade item is only applicable to consumer units. | 4. | If the GTIN of the standard trade item is provided then the type of association is mandatory. | 5 | The unit of measure used for the free quantity must be the same as the unit of measure of the net content. If the free quantity is expressed as a percentage on the package (for example, "15% free") it must be converted into a quantity expressed in the same unit of measure as the net content in the message. | 6. | The free quantity is populated for simple free quantity promotional trade items (except the sample promotions) and for free quantity promotional multi-packs. | 7. | The free quantity is only applicable to consumer units. | 8. | The promotional offer description is only applicable to consumer units. | 9. | The free quantity of next lower level trade item is only used for free quantity combination packs. If the free quantity promotional trade item is simple or is a multi-pack the free quantity is populated. In the case a sample promotion is described, there is no free quantity provided. |
| 1 | The GTIN of the standard trade item is populated for simple free quantity promotional trade items and for free quantity promotional multi-packs. | | | | | | | | | | | | | | | | | | |
| 2 | If it exists, the associated trade item identification must already be in the home data pool in order to ensure data integrity. | | | | | | | | | | | | | | | | | | |
| 3. | The GTIN of the associated standard trade item is only applicable to consumer units. | | | | | | | | | | | | | | | | | | |
| 4. | If the GTIN of the standard trade item is provided then the type of association is mandatory. | | | | | | | | | | | | | | | | | | |
| 5 | The unit of measure used for the free quantity must be the same as the unit of measure of the net content. If the free quantity is expressed as a percentage on the package (for example, "15% free") it must be converted into a quantity expressed in the same unit of measure as the net content in the message. | | | | | | | | | | | | | | | | | | |
| 6. | The free quantity is populated for simple free quantity promotional trade items (except the sample promotions) and for free quantity promotional multi-packs. | | | | | | | | | | | | | | | | | | |
| 7. | The free quantity is only applicable to consumer units. | | | | | | | | | | | | | | | | | | |
| 8. | The promotional offer description is only applicable to consumer units. | | | | | | | | | | | | | | | | | | |
| 9. | The free quantity of next lower level trade item is only used for free quantity combination packs. If the free quantity promotional trade item is simple or is a multi-pack the free quantity is populated. In the case a sample promotion is described, there is no free quantity provided. | | | | | | | | | | | | | | | | | | |

| Use Case ID | UC-1 | |
|-------------|------|--|
| | 10. | The unit of measure used for the free quantity of next lower level must be the same as the unit of measure of the Net content of the child trade item. |
| | 11. | The free quantity of next lower level is only applicable to consumer units. |
| | 12. | The free quantity of next lower level trade item is associated with next lower level as well as the quantity of next lower level trade item; the trade item identification of next lower level trade item. |
| | 13. | If the trade item is a promotional trade item, then the first ordering date is mandatory. |
| | 14. | If the trade item is a promotional trade item, then the last ordering date is mandatory. |
| | 16. | The promotional trade item may replace temporarily or coexist with the standard trade item on the shelves. |
| | 17. | The promotional trade item is available for a limited period of time. |
| | 18. | Dates of availability to order may be trading partner dependent. |
| | 19. | If the free quantity promotional trade item is a multi-pack (a grouping of trade items with only one child), the free quantity applies to the promotional trade item itself. There is no need to use the next lower level to express the free quantity. |
| | 20. | If the free quantity promotional trade item is a combination pack (a grouping of trade items with more than one child), the free quantity does not apply to the promotional trade item but to the child(ren) to/of which the free is added or included. All relevant information about the free quantity is given at the child(ren) level. |
| | 21. | For products where the bonus is the same as the standard product, the free quantity amount will be expressed in the same unit of measure as the net content. For combination packs, that will not be the case. |

4.3. Business Transaction Activity Diagram(s)

Not Applicable

4.4. Business Transaction Sequence Diagram(s) (optional)

Not Applicable

5. Information Model (Including GDD Report)

5.1. Data Description:

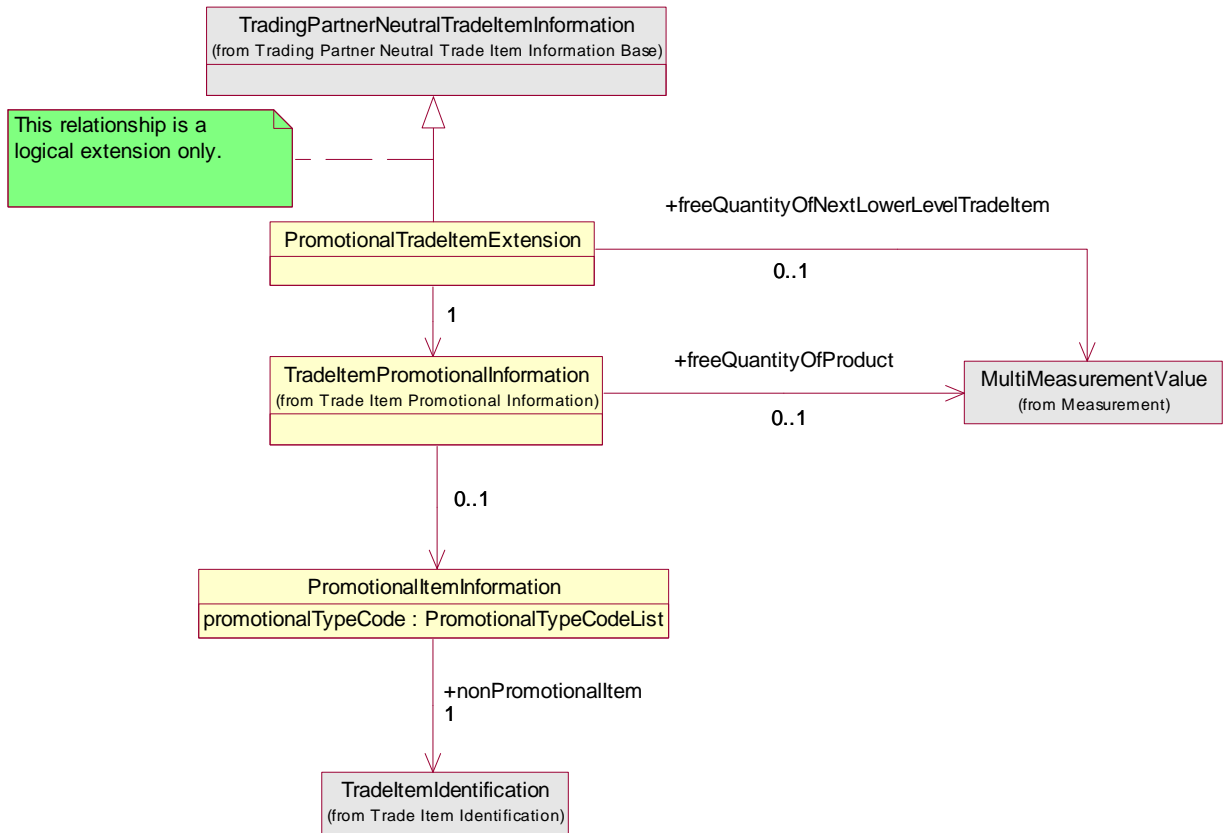
| Class (ABIE) | Attribute (BBIE) | Association (ASBIE) | Secondary Class | Related Requirements |
|---------------------------------|---------------------|---------------------------------------|---------------------------------|----------------------|
| PromotionalItemInformation | | | | |
| | promotionalTypeCode | | | Ref 1.{7.1.2} |
| | | nonPromotionalItem | TradeItemIdentification | Ref 1.{7.3.2} |
| PromotionalTradeItemExtension | | | | |
| | | freeQuantityOfNextLowerLevelTradeItem | MultiMeasurementValue | Ref 1.{7.1.5} |
| | | None | TradeItemPromotionalInformation | |
| TradeItemPromotionalInformation | | | | |
| | | freeQuantityOfProduct | MultiMeasurementValue | Ref 1.{7.1.3} |
| | | None | PromotionalItemInformation | |

5.2. GDD Report:

| Class (ABIE) | Attribute (BBIE) | Association (ASBIE) | Secondary Class | Official Dictionary Entry Name | Definition | Multiplicity |
|----------------------------|---------------------|---------------------|-------------------------|--|--|--------------|
| PromotionalItemInformation | | | | Promotional Item. Details | Provides details of the type of promotional item and its relationship to the non-promotional item. | |
| | promotionalTypeCode | | | Promotional Item. Promotional Type. Promotional Type_ Code | Used to identify the different types of free quantity promotional trade items and the nature of the link between the standard trade item and the promotional trade item. | 1..1 |
| | | nonPromotionalItem | TradeItemIdentification | Promotional Item. Nonpromotional Item. Trade Item Identification | The GTIN of the standard Trade Item. Used to indicate which trade item the promotional trade item replaces or coexists with. To enable the linking of identification and there for of information be-teen the two trade items. | 1..1 |

| Class (ABIE) | Attribute (BBIE) | Association (ASBIE) | Secondary Class | Official Dictionary Entry Name | Definition | Multiplicity |
|---------------------------------|------------------|---------------------------------------|---------------------------------|---|--|--------------|
| PromotionalTradeItemExtension | | | | Promotional Trade Item Extension. Details | Extension used to send attributes associated with items used for promotions. | |
| | | freeQuantityOfNextLowerLevelTradeItem | MultiMeasurementValue | Promotional Trade Item Extension. Association. Multi Measurement Value | The numeric quantity of free items in a combination pack. If the free quantity promotional trade item is simple or is a multi-pack the free quantity is populated. The unit of measure used for the free quantity of next lower level must be the same as the unit of measure of the Net Content of the Child Trade Item | 0..1 |
| | | None | TradeItemPromotionalInformation | Promotional Trade Item Extension. Association. Trade Item Promotion | None | 1..1 |
| TradeItemPromotionalInformation | | | | Trade Item Promotion. Details | Provides details regarding the promotional trade item and its link to the standard trade item. | |
| | | freeQuantityOfProduct | MultiMeasurementValue | Trade Item Promotion. Free Quantity Of Product. Multi Measurement Value | To indicate the quantity which is free. It is needed to update the price per unit of measure as displayed on the shelves. The unit of measure must be the same as the unit of measure of the Net Content. If the free quantity is expressed on the package it must be converted to a quantity expressed in the same unit of measure as the net content in the message. | 0..1 |
| | | None | PromotionalItemInformation | Trade Item Promotion. Association. Promotional Item | Provides details of the relationship between the promotional and standard item. | 0..1 |

5.3. Class Diagrams



5.4. Code Lists

| Code List Name | Code List Description |
|-------------------------|---|
| PromotionalTypeCodeList | Used to identify the different types of free quantity promotional trade items and the nature of the link between the standard trade item and the promotional trade item. |
| Code Name | Code Description |
| BONUS_PACK | The free quantity promotional trade item contains free additional quantities. The additional quantity is written on the package as free. |
| FREE_COMPONENTS | It contains free included components or material. The price is lower since the trade item includes a part of its content free. The free quantity is written on the package. |
| FREE_QUANTITY | It contains free quantity, a “special offer” sticker on the package indicates the promotional offer but the free quantity is not written on the package. If the free quantity promotional offer results in a change of GTIN and the quantity of product is the same as the standard trade item, it qualifies as a free quantity promotional trade item. The linkage has to be provided. |

| Code List Name | Code List Description |
|---------------------------------|--|
| MULTI_PACK_AND_COMBINATION_PACK | It is a promotional grouping with included free quantity. The grouping is created for promotional activities only. In the grouping a part of the quantity is free. |
| SAMPLE | A product that is not the product contained in the standard trade item but given together with the product of the standard trade item for free. This added product is contained in the package of the standard trade item or attached to it. |

6. Business Document Example

Not Applicable

7. Implementation Considerations

Not Applicable

8. Testing

This section describes the testing criteria for business solutions.

8.1. Pass / Fail Criteria

| No. | Test Criteria | Related Requirement | Design Element | Pass Criteria | Fail Criteria |
|-----|---------------|---------------------|----------------|---------------|---------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |

8.2. Test Data

| Attribute | Value |
|---------------------------------------|----------------|
| freeQuantityOfNextLowerLevelTradeItem | 4 PCE |
| freeQuantityOfProduct | 1 LT |
| promotionalTypeCode | Bonus_Pack |
| nonPromotionalItem | 06110123456784 |

9. Appendices

Not Applicable

10. Summary of Changes

| Change | BMS Version | Associated CR Number |
|---|-------------|----------------------|
| Initial Build | 0.0.1 | 04-219 |
| New code value SAMPLE added to the Promotional Type Code List | 0.0.2 | 07-00053 |