

The Global Language of Business

Application Receipt Acknowledgement Business Message Standard (BMS)

Release 3.5.1, Draft, Jan 2022





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| BRD Application Receipt Acknowledgement – Business Requirements Document | 06-Dec-2004 | 0.41.2 |
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1 Business Domain View

1.1 Introduction

Message Definition

The Application Receipt Acknowledgement message enables a message recipient to confirm that he received the message and whether he was able to process it without error.

Principles

The Application Receipt Acknowledgement ensures that trading partners are aware that the process is progressing in a predictable fashion. It allows trading partners to reduce expensive safeguards and manual checks, to recognize data receipt and errors quickly and therefore smooth the flow of goods and services through the supply chain.

For example, the Order process calls for an Initiator to create an Order document and a need to know it was received prior to back-end processing by the Responder's business application.

This BMS does not deal with the need for a business level Response (Acceptance, Modification, or Rejection) to an Order. So, for example, the Application Receipt Acknowledgement (ARA) for an Order would not indicate that the Responder plans to fulfil the order exactly as requested by the Initiator e.g. with respect to quantity, price, etc. Rather the ARA indicates receipt of the order document and optionally detection of errors or warnings.

1.2 References

| Reference Name | Description |
|---|--|
| BRD Application Receipt Acknowledgement | Business Requirements Document that outlines the requirements and supporting processes for a business application level acknowledgement of the receipt of a GS1 XML message and optional indication of detected validation errors or warnings. |
| eCom Common Library 3.4 | The documented design of components that are used in multiple messages within the eCom domain. |
| Shared Common Library 3.4 | The documented design of components that are used in multiple messages within the eCom domain and GDSN. |

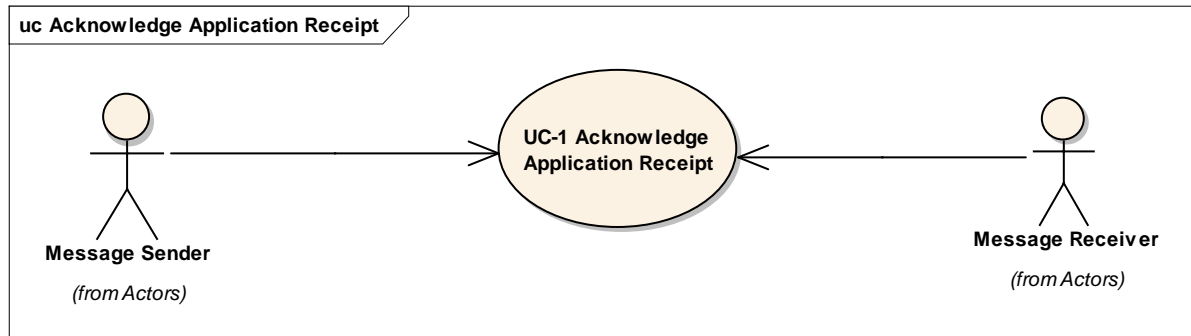
2 Business Context

| Context Category | Value(s) |
|----------------------|----------|
| Industry | All |
| Geopolitical | All |
| Product | All |
| Process | All |
| System Capabilities | GS1 eCom |
| Official Constraints | None |

3 Business Transaction View

3.1 Business Transaction – Acknowledge Application Receipt

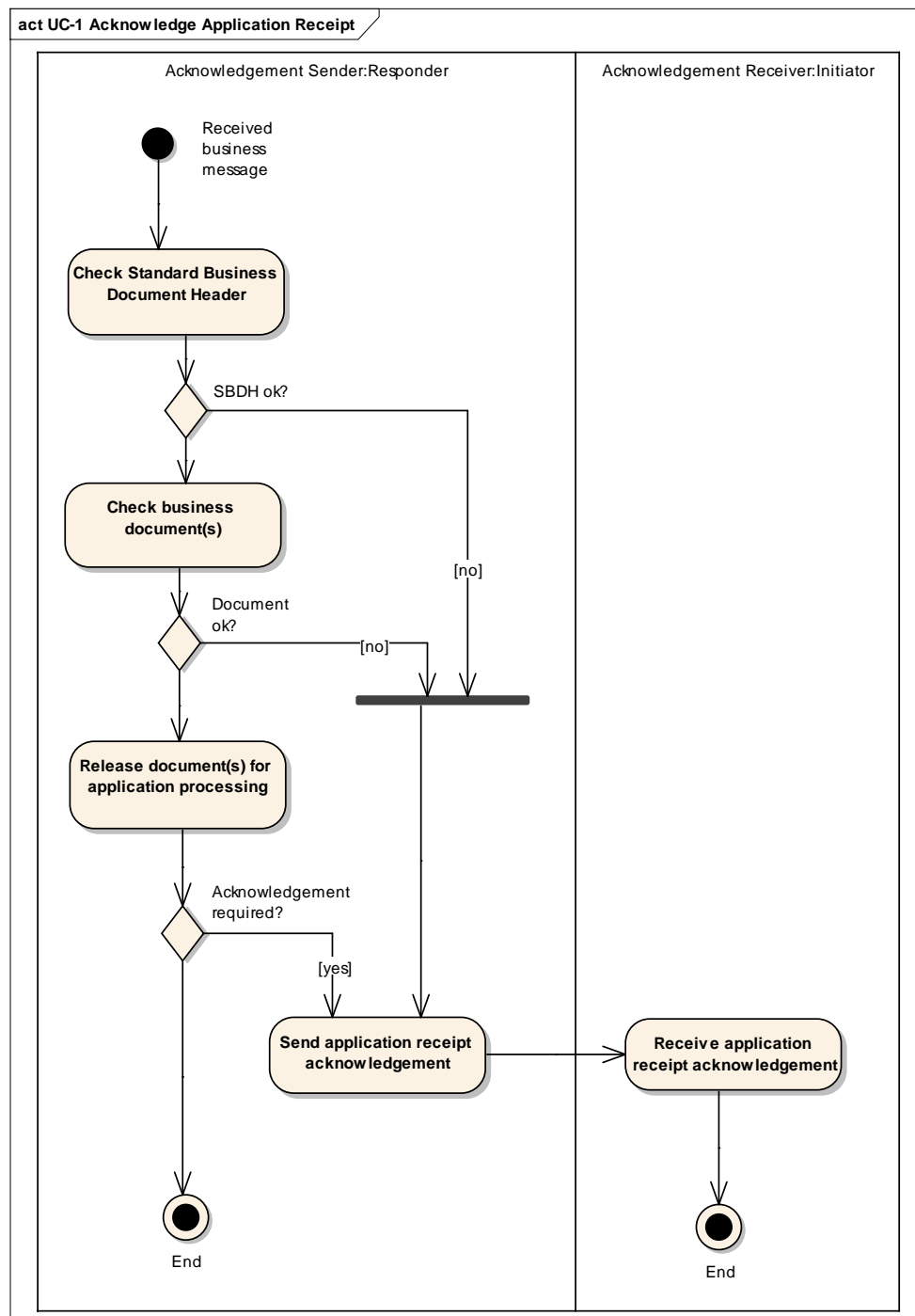
Use Case Diagram



Use Case Description

| Use Case ID | UC-1 | | | | | | | | | | | |
|----------------------|---|---|--|--------|-------|---------------|---|-----------|---|---|-----------|--|
| Use Case Name | Acknowledge application receipt | | | | | | | | | | | |
| Use Case Description | The Initiator sends the Business Message within the context of a Business Process and potentially a multi-step Collaboration. The Responder upon receiving the Business Message detects errors/warnings at the SBDH or Document hierarchical levels and responds to the message Initiator. | | | | | | | | | | | |
| Actors (Goal) | Initiator, Responder | | | | | | | | | | | |
| Performance Goals | | | | | | | | | | | | |
| Preconditions | Agreement to use the Application Receipt Acknowledgement (see UC-2). The Responder has received a Business Message. | | | | | | | | | | | |
| Post conditions | The message Initiator receives the Application Receipt Acknowledgement, including optional error/warning message(s). | | | | | | | | | | | |
| Scenario | <div>Begins when...</div> <div>1. The Responder's Back End application receives an XML Instance Document (business message)</div> <div>Optionally Continues with...</div> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>2</td><td>Responder</td><td>The Responder continues by fully detecting all possible errors/warnings in the business document.</td></tr><tr><td>3</td><td>Responder</td><td>The Responder determines the type of response required to send to the Initiator.</td></tr></table> <div>Ends when...</div> <div>4. The Responder generates and sends the Application Receipt Acknowledgement message back to the Initiator.</div> | | | Step # | Actor | Activity Step | 2 | Responder | The Responder continues by fully detecting all possible errors/warnings in the business document. | 3 | Responder | The Responder determines the type of response required to send to the Initiator. |
| Step # | Actor | Activity Step | | | | | | | | | | |
| 2 | Responder | The Responder continues by fully detecting all possible errors/warnings in the business document. | | | | | | | | | | |
| 3 | Responder | The Responder determines the type of response required to send to the Initiator. | | | | | | | | | | |
| Alternative Scenario | No Alternative Scenario | | | | | | | | | | | |
| Related Requirements | Not Applicable | | | | | | | | | | | |
| Related Rules | Not Applicable | | | | | | | | | | | |

Activity Diagram

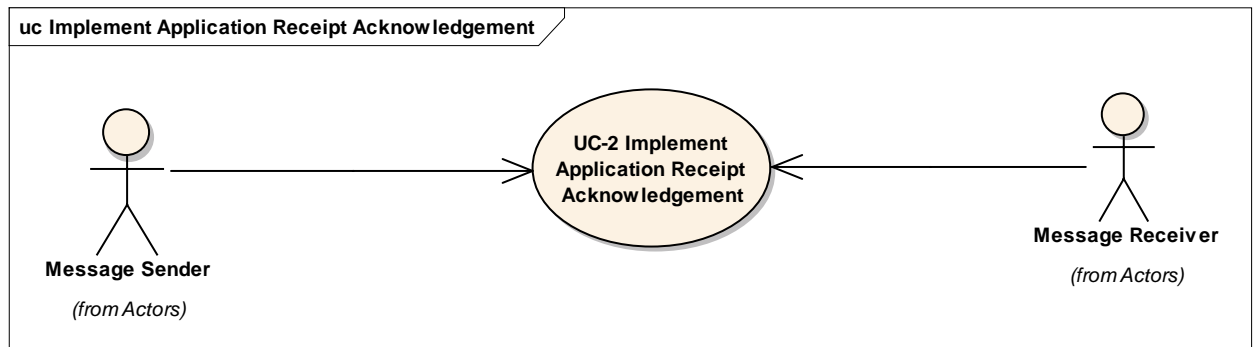


Sequence Diagram

Not Applicable

3.2 Business Transaction – Implement Application Receipt Acknowledgement

Use Case Diagram



Use Case Description

| Use Case ID | UC-2 |
|----------------------|--|
| Use Case Name | Implement Application Receipt Acknowledgement |
| Use Case Description | When Trading partners agree to use the Application Receipt Acknowledgement message, they must agree what actions will be taken should Acknowledgements not be received within the normal course of business. The Trading Partners must decide whether they will enforce a 'Time To Acknowledge Receipt' and if so, what actions will be taken if the lead time lapses before an Acknowledgement is received by the Initiator. The Trading Partners must also decide whether they will enforce the optional 'Is Application Error Response Requested' choreography. |
| Actors (Goal) | Responder: To be assured that both parties understand the full process being implemented and what actions are to be taken if the expected outcome is not achieved. Initiator: To be assured that both parties understand the full process being implemented and what actions are to be taken if the expected outcome is not achieved. |
| Performance Goals | None, this is a business agreement between trading partners. |
| Preconditions | Responder and Initiator must agree to use the Application Receipt Acknowledgement. |
| Post conditions | The Responder and Initiator agree on a full process that includes the Application Receipt Acknowledgement and all potential outcomes. |

| Use Case ID | UC-2 | | |
|--|--|--|--|
| Scenario | Begins when... | | |
| | 1. The Responder and Initiator agree to use the Application Receipt Acknowledgement message. | | |
| | Continues with... | | |
| | Step # | Actor | Activity Step |
| | 2 | Initiator & Responder | Agree on the duration of the Acknowledgement Receipt Lead Time period. |
| | 3 | Initiator & Responder | Agree whether to use the 'Is Application Error Response Requested' choreography. |
| | 4 | Initiator & Responder | If a Time To Acknowledge Receipt is to be enforced, they agree on the steps to be taken if an Application Receipt Acknowledgement is not received within the agreed time period. |
| | 5 | Initiator & Responder | Agree on the steps to be taken if an Application Receipt Acknowledgement is not received. |
| | 6 | Initiator & Responder | Agree on the steps to be taken if Errors or Warnings are detected |
| Ends when... | | | |
| 7. Responder and Initiator have full agreement on their process. | | | |
| Alternative Scenario | Not Applicable | | |
| Related Requirements | When a message is sent, the Initiator requires an answer from the Responder that the Business Message has been received. | | |
| Related Rules | Rule | Description | |
| | 1 | Acknowledgement Receipt Lead Time existence: The Initiator and Responder must agree on an Acknowledgement Lead Time. | |
| | 2 | Acknowledgement Receipt Lead Time rule: Prior to the lapse of the Time to Acknowledge Receipt Lead Time, the Initiator must have received the Application Receipt Acknowledgement. | |
| | 3 | The Initiator and Responder must agree whether the Application Receipt Acknowledgement will be used in their individual collaborations. | |
| | 4 | The Initiator and Responder may agree on specific processes to be performed should an Acknowledgement not be received within the agreed Acknowledgement Lead time. | |

Activity Diagram

Not Applicable

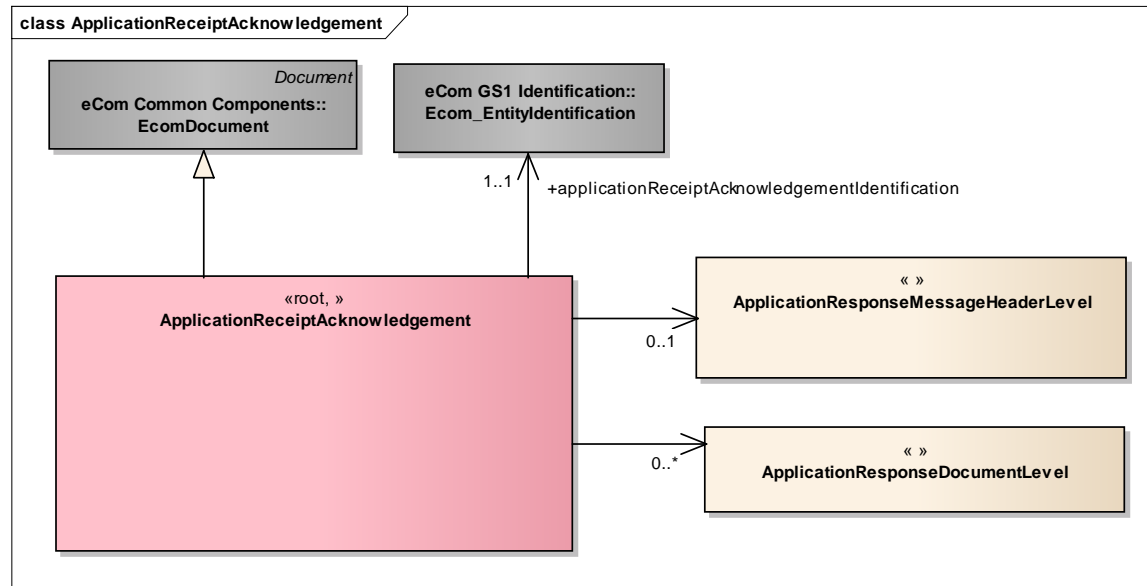
Sequence Diagram

Not Applicable

4 Business Information View

4.1 Application Receipt Acknowledgement

Class Diagram



GDD Report


The content of the ApplicationReceiptAcknowledgement class, its structure and component definitions can be accessed in the Global Data Dictionary:

http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ApplicationReceiptAcknowledgement



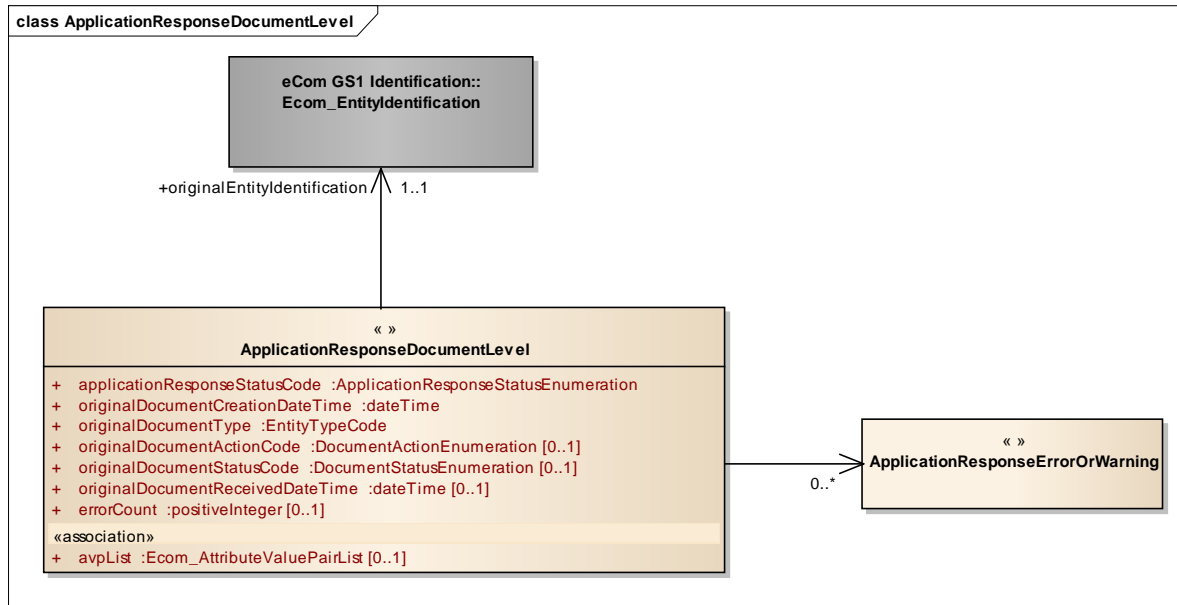
Application Receipt Acknowledgement - Business Message Standard (BMS)

| Content | Attribute / Role | Datatype /Secondary class | Multiplicity | Definition | Requirements |
|-----------------------------------|---|---------------------------------------|--------------|---|--------------|
| ApplicationReceiptAcknowledgement | | | | Application Receipt Acknowledgement is a distinctive GS1 Business Document used to respond to other GS1 Business Messages. This document serves two key purposes: The Responder may use the document to communicate successful receipt acknowledgement of an GS1 Business Document (e.g. Order, Invoice) back to the Initiator. Secondly, the Responder may also use the document to communicate validation exceptions back to the Initiator. | |
| Association | applicationReceiptAcknowledgementIdentification | Ecom_EntityIdentification | 1..1 | The unique identification of the Application Receipt Acknowledgement document. | WR 15-314 |
| Association | | ApplicationResponseDocumentLevel | 0..* | Receipt acknowledgements, errors or warnings for each Business Document. | |
| Generalization | | EcomDocument | | Basic information about the content of the message including version number, creation date and time and the placeholder for non-standard attributes. | |
| Association | | ApplicationResponseMessageHeaderLevel | 0..1 | Receipt acknowledgements, errors or warnings for the message header level. | |

 **Note:** Reference Shared Common Library Business Message (BMS) Release 3.5.1 and eCom Domain Common Library Business Message (BMS) Release 3.5.1 for all common information.

4.2 Application Response Document Level

Class Diagram



GDD Report

The content of the ApplicationResponseDocumentLevel class, its structure and component definitions can be accessed in the Global Data Dictionary:

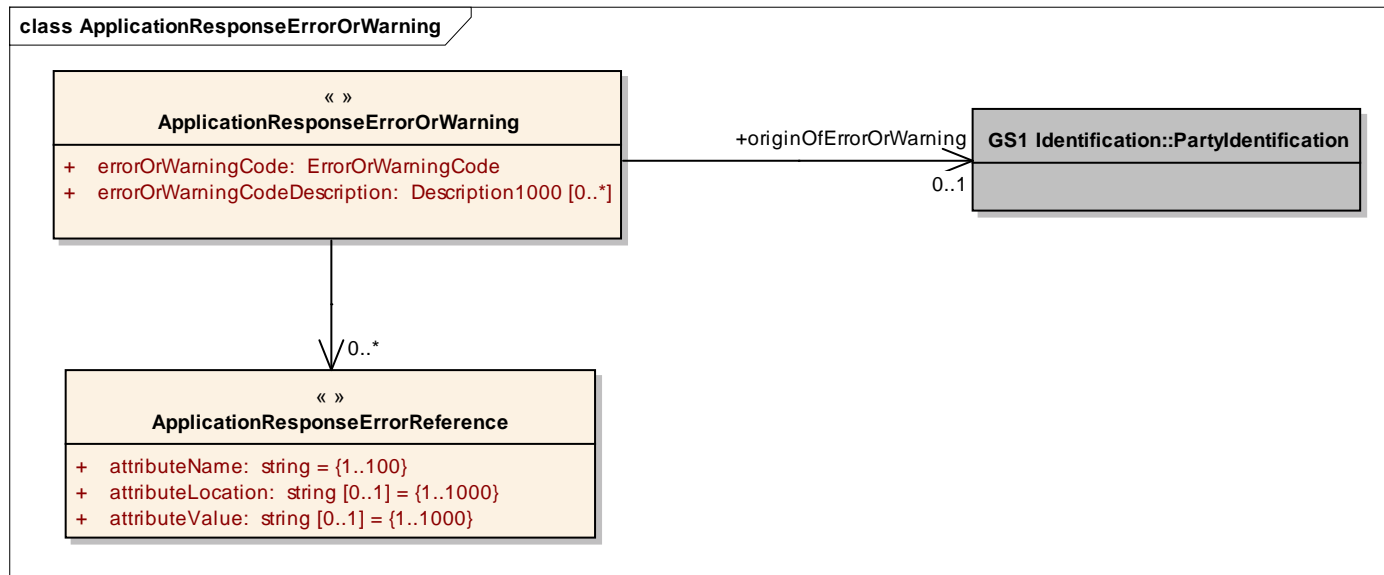
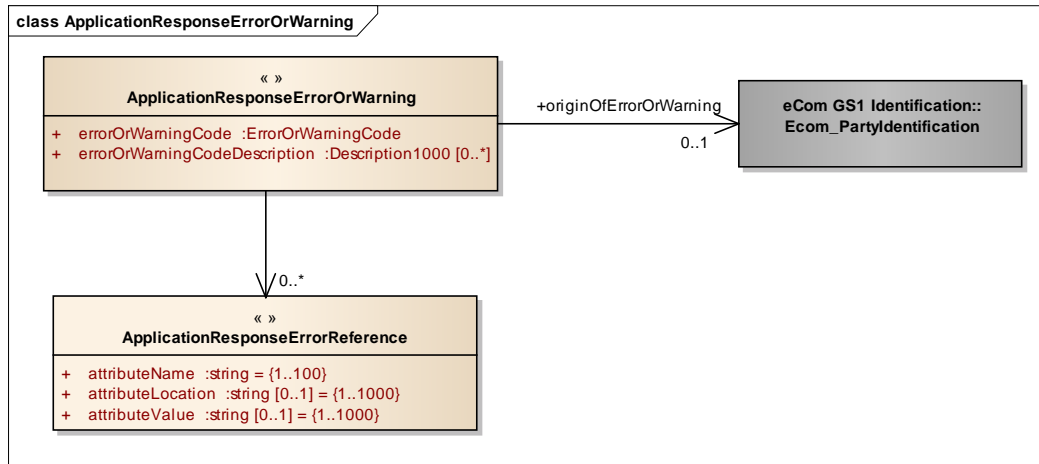
http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ApplicationResponseDocumentLevel

| Content | Attribute / Role | Datatype /Secondary class | Multiplicity | Definition | Requirements |
|----------------------------------|------------------------------|---------------------------|--------------|---|--------------|
| ApplicationResponseDocumentLevel | | | | This structure is used to communicate receipt acknowledgements, errors or warnings for a Business Document. | |
| Association | originalEntityIdentification | Ecom_EntityIdentification | 1 | The identification of the document being responded to, as stated in the original document. | |

| Content | Attribute / Role | Datatype /Secondary class | Multiplicity | Definition | Requirements |
|-------------|----------------------------------|--------------------------------------|--------------|--|--------------|
| Association | | ApplicationResponseErrorOrWarning | 0..* | The ErrorOrWarning is applied by the Responder when a StatusType is equal to ERROR or WARNING. This class of attributes is not applicable when the StatusType is RECEIVED. | |
| Attribute | applicationResponseStatusCode | ApplicationResponseStatusEnumeration | 1..1 | Code specifying the status of the received GS1 Business Document. Values are RECEIVED, ERROR or WARNING. | |
| Attribute | avpList | Ecom_AttributeValuePairList | 0..1 | Temporary attributes introduced between minor versions. | |
| Attribute | originalDocumentCreationDateTime | dateTime | 1..1 | The creation date time of the document being responded to, as stated in the original document. | |
| Attribute | originalDocumentType | EntityTypeCode | 1..1 | Code specifying the type of GS1 Business Document being responded to. | |
| Attribute | originalDocumentActionCode | DocumentActionEnumeration | 0..1 | The document action code as stated in the original document being responded to.;added in MR3 | |
| Attribute | originalDocumentStatusCode | DocumentStatusEnumeration | 0..1 | The document status code as stated in the original document being responded to.;added in MR3 | |
| Attribute | originalDocumentReceivedDateTime | dateTime | 0..1 | The date time at which the Responder received the original document being responded to. | |
| Attribute | errorCount | positiveInteger | 0..1 | The number of errors or warnings detected in the Business Document. | |

4.3 Application Response Error Or Warning

Class Diagram



GDD Report

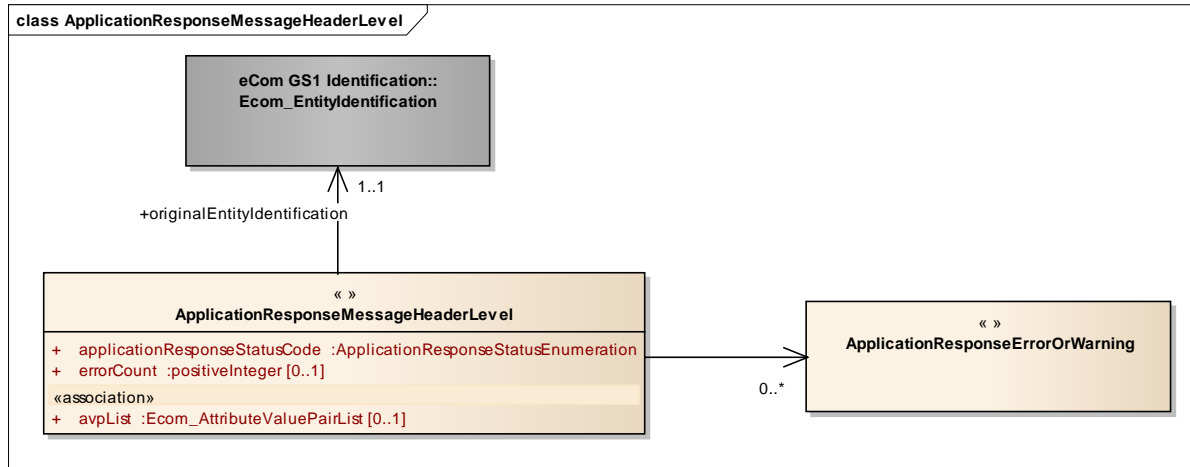
The content of the ApplicationResponseErrorOrWarning class, its structure and component definitions can be accessed in the Global Data Dictionary:

http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ApplicationResponseErrorOrWarning

| Content | Attribute / Role | Datatype /Secondary class | Multipli city | Definition | Requirement s |
|-----------------------------------|-------------------------------|-----------------------------------|---------------|--|---------------|
| ApplicationResponseErrorOrWarning | | | | Details describing the nature and location of an error or warning. | |
| Association | | ApplicationResponseErrorReference | 0..* | Exact references to the cause of an error or warning. | |
| Association | originOfErrorOrWarning | Ecom_PartyIdentification | 0..1 | The originOfErrorOrWarning may be used by the Responder to communicate the exact party that detected the error or warning. The exact origin of the error or warning may be a sub-division of the Responder's organisation, or the exact origin may be a third party partner. | WR 15-340 |
| Attribute | errorOrWarningCode | ErrorOrWarningCode | 1..1 | Code specifying the type of error or warning. | |
| Attribute | errorOrWarningCodeDescription | Description1000 | 0..* | Textual description of the error or warning code. | |
| ApplicationResponseErrorReference | | | | An exact reference to the cause of an error or warning. | |
| Attribute | attributeName | string | 1..1 | The proper business name of an attribute. | |
| Attribute | attributeLocation | string | 0..1 | The exact location of the attribute in the GS1 Business Message for which an error or warning was detected. One standard method of providing the AttributeLocation is by providing the XPath of the attribute. | |
| Attribute | attributeValue | string | 0..1 | The original value of an attribute for which an error or warning was detected. | |

4.4 Application Response Message Header Level

Class Diagram



GDD Report

The content of the ApplicationResponseMessageHeaderLevel class, its structure and component definitions can be accessed in the Global Data Dictionary:

http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ApplicationResponseMessageHeaderLevel

| Content | Attribute / Role | Datatype /Secondary class | Multiplicity | Definition | Requirements |
|---------------------------------------|------------------------------|-----------------------------------|--------------|--|--------------|
| ApplicationResponseMessageHeaderLevel | | | | This structure is used to communicate receipt acknowledgements, errors or warnings for the message header level.;renamed from SBDHApplicationReceiptAcknowledgement | |
| Association | | ApplicationResponseErrorOrWarning | 0..* | The ErrorOrWarning is applied by the Responder when a StatusType is equal to ERROR or WARNING. This class of attributes is not applicable when the StatusType is RECEIVED. | |
| Association | originalEntityIdentification | Ecom_EntityIdentification | 1..1 | The identification of the message being responded to, as stated in the standard business document header of the original message. | WR 15-340 |

| Content | Attribute / Role | Datatype /Secondary class | Multiplicity | Definition | Requirements |
|-----------|-------------------------------|--------------------------------------|--------------|--|--------------|
| Attribute | applicationResponseStatusCode | ApplicationResponseStatusEnumeration | 1..1 | Code specifying the status of the received message. Values are RECEIVED, ERROR or WARNING. | |
| Attribute | avpList | Ecom_AttributeValuePairList | 0..1 | Temporary attributes introduced between minor versions. | |
| Attribute | errorCount | positiveInteger | 0..1 | The number of errors or warnings detected in the header of the message. | |



Note: Reference Shared Common Library Business Message (BMS) Release 3.5.1 and eCom Domain Common Library Business Message (BMS) Release 3.5.1 for all common information.

4.5 Enumerations (message specific)

4.5.1 ApplicationResponseStatusEnumeration

| Code | Code Description |
|----------|-----------------------------|
| ERROR | An error acknowledgement. |
| RECEIVED | A received acknowledgement. |
| WARNING | A warning acknowledgement. |

4.5.2 DocumentActionEnumeration

| Code | Code Description |
|-------------------|--|
| ADD | The creation of a new document. |
| CHANGE_BY_REFRESH | A change on a previously sent document by sending the entire updated document. |
| DELETE | The deletion of a previously sent document. |

4.5.3 DocumentStatusEnumeration

| Code | Code Description |
|-------------------------|--|
| ADDITIONAL_TRANSMISSION | Message already transmitted via another communication channel. This transmission provides electronically processable data only. The French tax authorities ask to distinguish the different transmission modes for the invoices in case of control |
| COPY | A copy of the original document issued by the sender. |
| ORIGINAL | The original document issued by the sender. |

4.6 Code List

| Class | Codelist | GDD Link |
|-----------------------------------|--------------------|---|
| ApplicationResponseDocumentLevel | EntityTypeCode | http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:EntityTypeCode |
| ApplicationResponseErrorOrWarning | ErrorOrWarningCode | ErrorOrWarningCode">http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl>ErrorOrWarningCode |



Note: Refer to the Global Data Dictionary (GDD) for the code values.

5 Business Message Examples

5.1 Example 1

This is an example of an Application Receipt Acknowledgement message intended to confirm that the message has been received. The message is identified with the unique identification number RA0001.

Party Information

| GS1 Global Location Number | Party Type |
|----------------------------|---------------------------|
| 5412345000013 | Buyer - message sender |
| 4098765000010 | Seller - message receiver |

The message receiver – Seller (GLN 4098765000010) has received the Order message with identification number PO3352 from the sender – Buyer (GLN 5412345000013). As previously agreed between the two parties, the receiving application sends a message to the sending application that theOrder has been received. This does not equal to the acceptance of the Order.

Message example 1

| Attribute | Value |
|--|------------------|
| ApplicationReceiptAcknowledgement | |
| creationDateTime | 2011-03-11 11:43 |
| documentStatusCode | ORIGINAL |
| EntityIdentification (+applicationReceiptAcknowledgementIdentification) | |
| entityIdentification | RA0001 |
| TransactionalParty (+contentOwner) | |
| gln | 4098765000010 |
| ApplicationResponseDocumentLevel | |
| applicationResponseStatusCode | RECEIVED |
| originalDocumentCreationDateTime | 2011-03-11 11:00 |
| originalDocumentType | 35 |
| EntityIdentification (+originalEntityIdentification) | |
| entityIdentification | PO3352 |
| TransactionalParty (+contentOwner) | |
| gln | 5412345000013 |

5.2 Example 2

This is an example of an Application Receipt Acknowledgement message intended to report an error in the original message. The message is identified with the unique identification number RA0009.

The message receiver – Seller (GLN 4098765000010) has received the Order message with identification number PO3352 from the sender – Buyer (GLN 5412345000013). As previously agreed between the two parties, the receiving application sends a message to the sending application that theOrder was received and an error was detected – the message was incomplete.

Message example 2

| Attribute | Value |
|--|--------------------|
| ApplicationReceiptAcknowledgement | |
| creationDateTime | 2011-03-11 11:43 |
| documentStatusCode | ORIGINAL |
| EntityIdentification (+applicationReceiptAcknowledgementIdentification) | |
| entityIdentification | RA0009 |
| TransactionalParty (+contentOwner) | |
| gln | 4098765000010 |
| ApplicationResponseDocumentLevel | |
| applicationResponseStatusCode | ERROR |
| originalDocumentCreationDateTime | 2011-03-11 11:00 |
| originalDocumentType | 35 |
| EntityIdentification (+originalEntityIdentification) | |
| entityIdentification | PO3352 |
| TransactionalParty (+contentOwner) | |
| gln | 5412345000013 |
| ApplicationResponseErrorOrWarning | |
| errorOrWarningCode | INCOMPLETE_MESSAGE |

6 Implementation Considerations

6.1 User Guide

The Functional User Guide contains more information about the structure and content of the Application Receipt Acknowledgement message: http://www.gs1.org/docs/ecom/xml/3/3.4/eCom-Trade_messages.html#ApplicationReceiptAcknowledgement

6.2 Message Specific Considerations

6.2.1 Error Detection



Note: Please refer to the SBDH Technical Implementation Guide for guidance on usage of the data elements contained in the header. This document can be found at:

http://www.gs1.org/qsmp/kc/ecom/xml/xml_sbdh

| How To Determine An Application Receipt Acknowledgement Error | |
|---|---|
| Standard Business Document Header | |
| 1 | What are the data fields of the Standard Business Document Header? Which data fields of the Standard Business Document Header are utilized in the Business Process? |
| 2 | What Business Rules are associated with the individual data fields of the Standard Business Document Header? |

| How To Determine An Application Receipt Acknowledgement Error | |
|---|---|
| 3 | Are the data fields in the Standard Business Document Header consistent with the data provided in the message? (e.g. do the enclosed Business Documents match the specified type?) |
| 4 | What are the SBDH-Level Instance Identifier uniqueness rules? What are the rules and expectations for the SBDH-Level Instance Identifier for the GS1 Business Process? |
| Business Document | |
| 1 | What are <u>typical errors</u> associated with the Business Document? |
| 2 | What are the <u>data fields</u> in this business documents? What are the constraints and rules associated with individual data fields? |
| 3 | What are the <u>dependency constraints</u> and rules between the different data fields of the Business Document? |
| 4 | What are the specialized data field rules associated with <u>each Command Type</u> (ADD, CHANGE_BY_REFRESH, DELETE)? |
| 5 | What are the <u>Document-Level Identifier</u> uniqueness rules? What are the rules and expectations for the Document-Level UniqueCreatorIdentification & the ContentOwner for the GS1 Business Process? |
| 6 | What is the expected response to each error? |

6.2.2 Implementation

| Implementation Steps | |
|----------------------|---|
| 1 | Identify the <u>Business Document</u> for which the Application Receipt Acknowledgement And Or Error definition will apply |
| 2 | Determine the Document-Level <u>Data Field(s)</u> for which an Application Receipt Acknowledgement And Or Error is being defined? Also, determine the <u>Data Field Name</u> . |
| 3 | Fully describe the <u>Logical Business Rule</u> for which the Application Receipt Acknowledgement And Or Error is being defined. |
| 4 | Identify the <u>Business Process(es)</u> that requires an error or advice definition. If applicable, determine the <u>step within the collaboration</u> (a.k.a. dialog). |
| 5 | Identify the <u>Actors</u> in the Business Process such that all parties are identified as message Initiator, Responder or Proxy. |
| 6 | Determine how the Business Document will be <u>uniquely identified</u> (see "How to uniquely identify a GS1 XML Business Document") |
| 7 | Determine the <u>Xpath location</u> (or other identification method) of the data element in the XML Business Document structure for which the error or advice is being defined. |
| 8 | Identify a <u>unique code</u> for the new error or advice definition. Codes should be globally unique across business processes. Business processes will be uniquely identified in the Standard Business Document Header. |
| 9 | Develop one or more <u>Error/Advice Descriptions</u> for each error or advice code. |

7 Summary of Changes

Any change in the GS1 standards is done based on the Work Request (WR) submitted by the GS1 User Companies or Member Organisations. All Work Requests are documented in the Work Request system available on the GS1 website: <http://wr.gs1.org>. The system is accessible to registered users. New visitors need to register first, to be able to access it. WRs can be searched by the number referenced in tables below, see: Search Work Requests. The number starts with the two last digits of the year when it was submitted, followed by the consecutive number within that year.



Note: WRs submitted earlier than February 2012 should be searched in Old Change Requests.

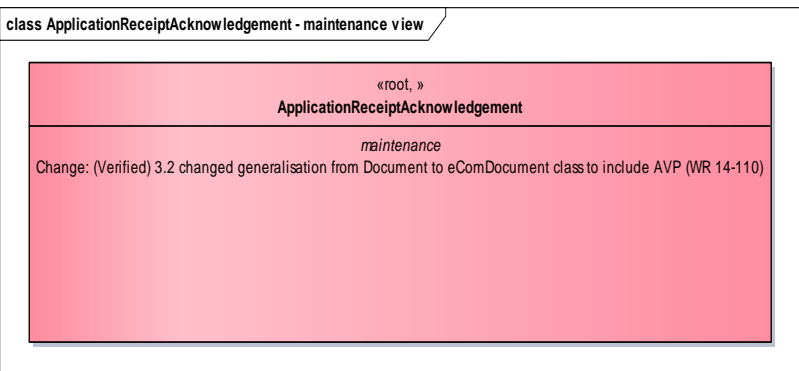
7.1 BMS Release 3.0

| Change | Associated CR Number |
|---|----------------------|
| <p>BMS Release 3.0: Updates to reflect changes in modelling methodology</p> <ul style="list-style-type: none"> Added DocumentActionEnumeration and DocumentStatusEnumeration to section code lists. Updated section 7.2 to reflect changes in the codes in Document Action Code List. Replaced 1 occurrence of ean.ucc by GS1 in both sections 1.4 and 7.1 Replaced multiDescription1000 with repeatable description1000. | n/a |

7.2 BMS Release 3.1

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

7.3 BMS Release 3.2

| Change | Associated WR |
|--|---|
| <p>class ApplicationReceiptAcknowledgement - maintenance view</p>  | <p>14-000110</p> <p>Add Attribute Value Pair at the root, line item and sub line item levels</p> |

| Change | Associated WR |
|--|---|
| <p>class ApplicationResponseMessageHeaderLevel - maintenance view</p> <pre> classDiagram class ApplicationResponseMessageHeaderLevel { << >> + applicationResponseStatusCode: ApplicationResponseStatusEnumeration + errorCount: positiveInteger [0..1] << association >> + avpList: Ecom_AttributeValuePairList [0..1] } ApplicationResponseMessageHeaderLevel maintenance Change: (Verified) 3.2 added +avpList (WR 14-110) </pre> | <p>14-000110</p> <p>Add Attribute Value Pair at the root, line item and sub line item levels</p> |
| <p>class ApplicationResponseDocumentLevel - maintenance view</p> <pre> classDiagram class ApplicationResponseDocumentLevel { << >> + applicationResponseStatusCode: ApplicationResponseStatusEnumeration + originalDocumentCreationDateTime: dateTime + originalDocumentType: EntityTypeCode + originalDocumentActionCode: DocumentActionEnumeration [0..1] + originalDocumentStatusCode: DocumentStatusEnumeration [0..1] + originalDocumentReceivedDateTime: dateTime [0..1] + errorCount: positiveInteger [0..1] << association >> + avpList: Ecom_AttributeValuePairList [0..1] } ApplicationResponseDocumentLevel maintenance Change: (Verified) 3.2 added +avpList (WR 14-110) </pre> | <p>14-000110</p> <p>Add Attribute Value Pair at the root, line item and sub line item levels</p> |

7.4 BMS Release 3.3

| Change | Associated WR |
|---|---|
| <p>Created Ecom_EntityIdentification class and changed association from the previous EntityIdentification</p> <p>class ApplicationReceiptAcknowledgement - maintenance view</p> <pre> classDiagram class eCom_GS1_Identification { << >> + Ecom_EntityIdentification } class ApplicationReceiptAcknowledgement { << root, >> maintenance } eCom_GS1_Identification "1..1" --> "1" ApplicationReceiptAcknowledgement : +applicationReceiptAcknowledgementIdentification ApplicationReceiptAcknowledgement maintenance Change: (Complete) 3.2 changed generalisation from Document to eComDocument class to include AVP (WR 14-110) Change: (New) 3.3 changed association from EntityIdentification to Ecom_EntityIdentification (WR 15-314) </pre> | <p>15-000314</p> <p>Make GS1 identification keys optional in GS1 EDI XML</p> |

| Change | Associated WR |
|--|---|
| <p>Created Ecom_EntityIdentification class and changed association from the previous EntityIdentification</p> <pre> class ApplicationResponseDocumentLevel - maintenance view «class» + eCom GS1 Identification::Ecom_EntityIdentification maintenance Change: (New) 3.3 New class (WR 15-314) +originalEntityIdentification 1..1 «class» ApplicationResponseDocumentLevel + applicationResponseStatusCode :ApplicationResponseStatusEnumeration + originalDocumentCreationDateTime :dateTime + originalDocumentType :EntityTypeCode + originalDocumentActionCode :DocumentActionEnumeration [0..1] + originalDocumentStatusCode :DocumentStatusEnumeration [0..1] + originalDocumentReceivedDateTime :dateTime [0..1] + errorCount :positiveInteger [0..1] «association» + avpList :Ecom_AttributeValuePairList [0..1] maintenance Change: (Complete) 3.2 added +avpList (WR 14-110) Change: (New) 3.3 changed association from EntityIdentification to Ecom_EntityIdentification (WR 15-314) </pre> | <p>15-000314</p> <p>Make GS1 identification keys optional in GS1 EDI XML</p> |
| <p>Created Ecom_PartyIdentification class and changed association from the previous PartyIdentification</p> <pre> class ApplicationResponseErrorOrWarning - maintenance view «class» ApplicationResponseErrorOrWarning + errorOrWarningCode :ErrorOrWarningCode + errorOrWarningCodeDescription :Description1000 [0..1] maintenance Defect: (New) 3.3 changed associations from PartyIdentification to Ecom_PartyIdentification (WR 15-314) +originOfErrorOrWarning 0..1 «class» eCom GS1 Identification::Ecom_PartyIdentification maintenance Change: (New) 3.3 New class (WR 15-314) </pre> | <p>15-000314</p> <p>Make GS1 identification keys optional in GS1 EDI XML</p> |
| <p>Created Ecom_EntityIdentification class and changed association from the previous EntityIdentification</p> <pre> class ApplicationResponseMessageHeaderLevel - maintenance view «class» ApplicationResponseMessageHeaderLevel + applicationResponseStatusCode :ApplicationResponseStatusEnumeration + errorCount :positiveInteger [0..1] «association» + avpList :Ecom_AttributeValuePairList [0..1] maintenance Change: (Complete) 3.2 added +avpList (WR 14-110) Change: (New) 3.3 changed association from EntityIdentification to Ecom_EntityIdentification (WR 15-314) +originalEntityIdentification 1..1 «class» eCom GS1 Identification::Ecom_EntityIdentification maintenance Change: (New) 3.3 New class (WR 15-314) </pre> | <p>15-000314</p> <p>Make GS1 identification keys optional in GS1 EDI XML</p> |

7.5 BMS Release 3.4

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

7.6 BMS Release 3.5

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

7.7 BMS Release 3.5.1

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

8 Appendices

Not Applicable

9 Acknowledgements

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

9.1.1 Work Group

| Function | Name | Company / organisation |
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| Co-chair | Schmidt, Tom Eric | August Storck KG |
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| Member | Canada, ON | M3B 3L1 |
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| Member | Chresta, Richard | GS1 Switzerland |
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9.1.2 Development Team Members

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| Function | Name | Organisation |
|----------------------------|-----------------|-------------------|
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