

BoostAero Standard Generic Structure

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1 Advice on BoostAero documentation for BAI XML beginners

BoostAero international strongly recommends to read the BoostAero documentation according to the following order:

1. AirSupply User Guide and BoostAeroSpace Supply Chain BRS to perfectly understand the business process
2. This generic guide that introduces the generic structure of BoostAero XML standard
3. The RSM documentation of the Streams you are interested in.
4. If you are running M2M on eSupplyChain (SPOKE), the Mapping Guide between BoostAero XML and CSV SPOKE (eSupplyChain). This worksheet is showing the mapping between BoostAero XML components & structure and the CSV FieldNames on eSupplyChain
5. The Mapping Guide between BAI and AirSupply. This worksheet is showing the mapping between BoostAero XML components & structure and the AirSupply FieldNames
6. AirSupply Documentation : Implementation Guide, Recommendation guide, specific message guide (SupplyOn AirSupply Supplier EDI_M2M Interface BoostAero XML V2.10_XXXXXXXXXX_Vx.x)

Documentation of point 1, 2, 3, 4, 5 is available on www.boostaero.com

2 BoostAero Generic Structure

2.1 Introduction to UN/CEFACT organization

Within the United Nations framework of the Economic and Social Council, the United Nations Economic Commission for Europe (UNECE) serves as the focal point for trade facilitation recommendations and electronic business standards, covering both commercial and government business processes that can foster growth in international trade and related services. In this context, the United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT) was established, as a subsidiary, intergovernmental body of the UNECE Committee on Trade, mandated to develop a programme of work of global relevance to achieve improved worldwide coordination and cooperation in these areas. (www.unece.org)

BoostAero is UN/CEFACT Compliant and supplies the European Aerospace and Defence industry a Computerized Data Exchange standard that delivers competitiveness and performance.

2.2 Why BoostAero?

- Because BoostAero standards are based on object methodology (CCL library) and XML syntax according to the UN/CEFACT and OASIS international specifications
- Because BoostAero standards provides a generic architecture for a semantically interoperable cloud.
- Because object methodology and XML syntax are recommended by international organizations as, Electronic industry, automotive industry, consumer products (GS1), transportation ...
- Because international governances, Europe governance and a lot of European governments included French administration recommend to use object methodology and XML syntax...
- Because BoostAero messages have been built on UML (Unified Modeling Language) to ensure the ability to have a sustainable communication language for digital exchange in the Aerospace and Defence industry and avoid using old semantic and syntax methods used by the past.

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2.3 Why UML and XML?

- Because when an object used across several documents is modified, there are no impacts on other messages and no major modifications at partner's level.
- Because BoostAero standard are based on hierarchical model which the nearest and the most pragmatic approach in regards of formal documents and business manners.
- Because XML language is the best way (and the cheapest) for the maintenance and the evolution of documents and messages contents.
- Because XML technology is the technology used in all communication systems which exist (smartphone, tablets, NFC ...) and which will exist in the future, assuming the guaranty of the continuation.
- Because XML is a self-portable syntax, human comprehensible.
- Because XML includes natively attributes of data elements.
- Because mapping between ASCII documents and ERP data bases are very difficult and more costly to realize and to maintain.

2.4 BoostAero documents Hyper Model structure

BoostAero messages are based on business objects that are associated together.

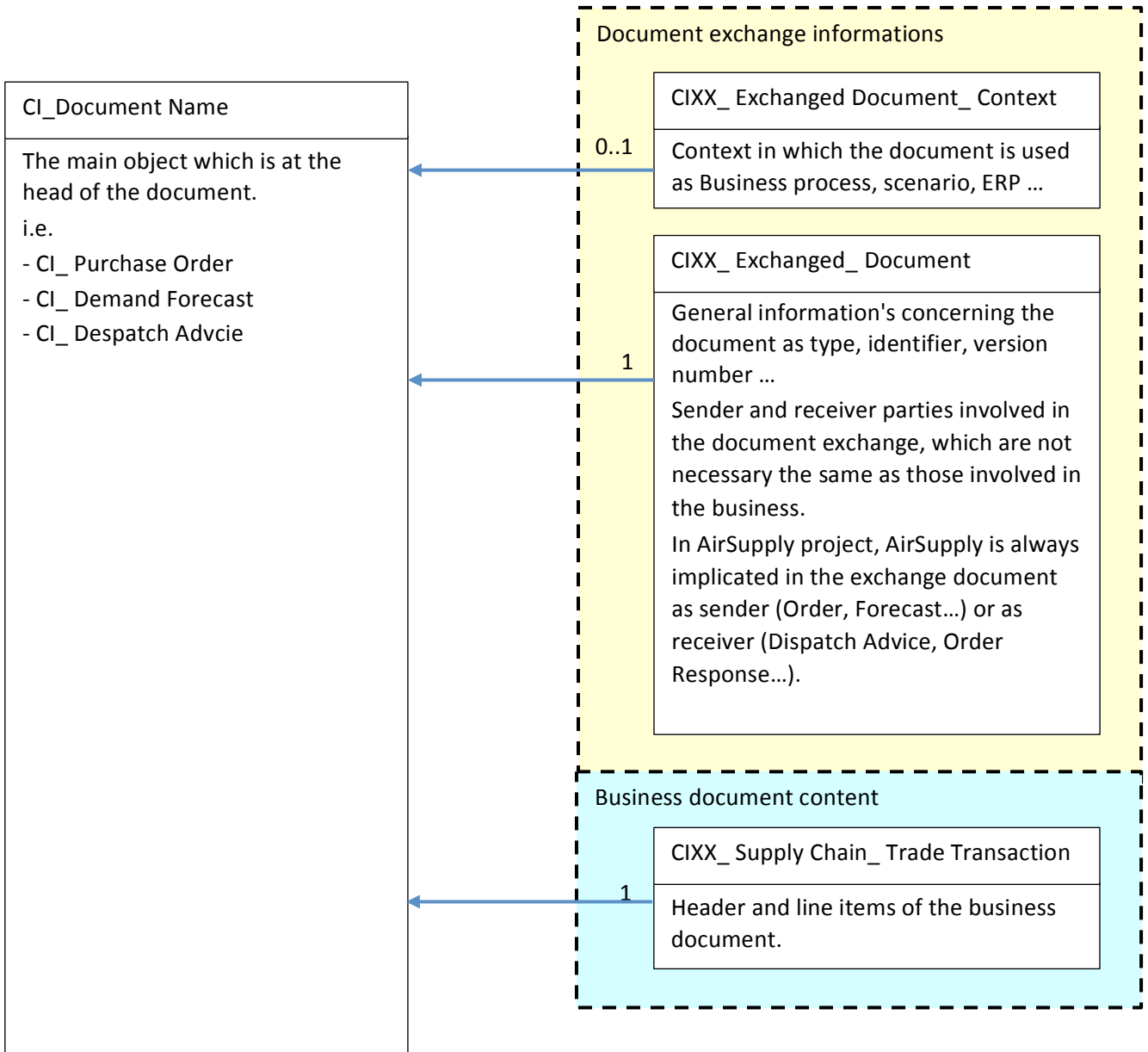
Business messages are composed of a group of objects which describes the exchange and another group of objects which describes the content of the business documents.

These objects are assembled in a general model called the "Hyper Model ". All BoostAero business documents (Purchase Order, Forecast, Dispatch Advice ...) are based on this Hyper Model whose content is described in this document.

Object names are structured according to the following naming rules :

CIXX_ Object Name where:

- CI means Cross Industry.
- XX is the acronym of the document (i.e. PO for Purchase Order).
- XX can be followed by H for Header of document or L for Line of document.
- Object name is the name of the object and when this one contains several words, they are separated by "_" sign.



Business document content

CIXX_Supply Chain_Trade Transaction

Header and line items of the business document.
i.e.

- CIPO_Supply Chain_Trade Transaction (Cross Industry Purchase Order Trade Transaction)
- CIDA_Supply Chain_Trade Transaction (Cross Industry Dispatch Advice Trade Transaction)

0..*

Business document HEADER

CIXXH_Supply Chain_Trade Agreement

0..*
General agreements between partners included references to other business documents (previous or attached documents).

CIXXH_Supply Chain_Trade Delivery

0..1
General delivery condition's which are available for the whole business document.

CIXXH_Supply Chain_Trade Settlement

0..1
Financial condition's which are available for the whole document.
Total amounts included total amounts of charges and discounts.

Business document line

CIXX_Supply Chain_Trade Line Item

Line items of the business document.

Business document LINE

CI_Document Line_Document

0..1
Line identifiers which be used in further documents or which was used in previous documents.

CIXXL_Supply Chain_Trade Agreement

0..*
Agreement between the partners included references to other business documents.

CIXXL_Supply Chain_Trade Delivery

0..1
Delivery condition's which are available for the line item.
Dates and quantities.

CIXXL_Supply Chain_Trade Settlement

0..1
Financial amount's which are available for the line item, included charges and discounts.

CI_Trade_Product

0..1
Product identifiers and product descriptions.

Date