



Specification



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PEPPOL Post Award eProcurement ICT - Models

BIS 5a - Billing



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3.10	15.05.2012	Bergthor Skulason	NITA	Align, update Corrective Invoice
				documentation

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1 Introduction

This BIS is a result of work within PEPPOL project and is published as part of PEPPOL specifications.

This PEPPOL BIS provides a set of specifications for implementing a PEPPOL business process. The document is concerned with clarifying requirements for ensuring interoperability of pan-European Public eProcurement and provides guidelines for supporting these requirements and how to implement them.

1.1 Audience

The audience for this document is organizations wishing to be PEPPOL enabled for exchanging electronic invoices, and/or their ICT-suppliers. These organizations may be:

- Service providers
- Contracting Authorities
- Economic Operators
- Software Developers

More specifically it is addressed towards the following roles:

- ICT Architects
- ICT Developers
- Business Experts

1.2 The PEPPOL BIS - short overview

The PEPPOL BIS (**B**usiness **I**nteroperability **S**pecification) provides a set of specifications for implementing PEPPOL business documents. The specifications enable any company to issue electronic documents that fulfil legal and business processing requirement within the European Union and the EEA⁵.. It supports a subset of information that is used by most industries and enables users to issue documents (invoices, orders, etc...) that are valid for cross border trade within the European Union and the EEA.

The BIS specifications are based on set of requirements to provide support for "common business processes" and legal requirements. The BIS identifies a small set of information elements and business rules as a basis for supporting these requirements. A selection of business rules place restrictions on the data elements to fulfil the requirements and clarify choices otherwise left open to implementers.

The PEPPOL BIS does not support data that is specific to certain industries or may be required in other areas. Trading partners can bi-laterally or within a trading context, provide additional content and rules to meet their specific needs by using this BIS as basis.

The PEPPOL BIS can serve as a standardised communication agreement within a trading community and can be reused for new trading partners without any additional setup cost. Implementing PEPPOL therefore opens the ability to exchange documents with various trading partners without previous bi-lateral setup and thereby lowering the cost of connecting to each new trading partner.

PEPPOL approach is to promote the PEPPOL BIS as a <u>procurement community agreement</u>. One of the defining components of PEPPOL is the service registries (SMP) where trading partners register their capabilities to receive electronic documents according to specific BIS. This registration constitutes a community agreement: any PEPPOL partner can lookup these capabilities and engage in document exchange with the registered company without previous agreement or bi-lateral setup.

A PEPPOL BIS can be seen as part of a standardised communication agreement that deals with:

- sequence of document in scope
- content of documents (data elements)
- business rules that govern the exchange

PEPPOL specifications for the post award provide support for the procurement processes linking information flow from catalogues, through ordering into billing, see [PEPPOL_PostAward] for more information.

⁵ EEA is the European Economic Area. Current members are Iceland, Liechtenstein and Norway.





1.3 PEPPOL BIS 5a - Billing – scope

This PEPPOL BIS supports a process for suppliers to send an invoice. It is intended to support transmission of an electronic invoice for processing in semi automated processes by the receiver. The BIS mandates no procurement related data but supports different ways of referring to the ordering process. By selective use of such references it can be used as basis for automated processing of invoices.

The intended scope for this BIS is:

- B2B and B2G
- Common business processes for cross industry and cross border invoicing
- To enable both VAT and non VAT invoicing
- Regional invoicing within EU and EEA
- Mainly for purchase of goods and services and/or services that can be itemized.

This PEPPOL BIS supports a set of "common use cases / process". These are processes that are used widely or understood as being relevant for most companies. The main processes supported by this BIS are:

- Accounting
- Approval
- Payment
- VAT reporting
- Auditing

This PEPPOL BIS supports requirements by providing elements for information needed to meet the requirement. This BIS also provides a set of business rules to clarify content and implementers can use them as basis for validation where it provides business value.

1.4 PEPPOL BIS 5a - Billing - benefits

The BIS 5a – Billing provides simple support for complex invoicing, where there is a need for credit note and corrective invoice, in addition to an invoice. Other potential benefits of using this BIS are, among others:

- While providing support for BIS 4a as simple invoicing, larger customers or customers with need for more complex interactions can be supported by BIS 5a – supporting credit node and corrective invoice in addition to a simple invoice.
- Can be used as basis for restructuring of in-house processes of invoices.
- Significant saving can be realized by the procuring agency by automating and streamlining in-house processing. The accounting can be automated significantly, approval processes simplified and streamlined, payment scheduled timely and auditing automated.

This PEPPOL BIS is based on the CEN/ISSS WS/BII Profile BII05 specification, see [BII_Invoice].

1.5 PEPPOL BIS 5a - Basic Invoice only - summary

This PEPPOL BIS structure is based on the European Interoperability Framework 2.0. PEPPOL BIS applies the Framework within 5 layers as follows:

- Legal:
 - Enable both VAT and non VAT invoicing
 - The external environment is governed by the legal regime on invoicing. Legal scope is the EU VAT Directive 2006/112/EC on the common system of value added tax (VAT) for supporting sales and purchase invoices.
 - PEPPOL provides methodology for supporting additional national legal requirements to the EU VAT Directive and applies therefore equally well to domestic trade as cross border.
- Organization (Organization/Business):
 - This PEPPOL BIS supports B2B and B2G
 - This PEPPOL BIS supports cross border, regional and domestic invoicing in EU and EEA
 - >> This PEPPOL BIS can function as a standardized EDI agreement within a trading community
 - This PEPPOL BIS supports linking of business processes within the sending and receiving organization. This process of invoice transmission in electronic form can be linked into internal processes of both sender and receiver, which may differ for various reasons.
- Organization (Process):





- This PEPPOL BIS supports a set of "common business processes" that are assumed to be supported by most. These are processes that are used widely or understood as being relevant for most companies.
- Semantic:
 - A minimum set of information elements required to fulfil legal requirements for an invoice.
 - The set of information elements is assumed to be sufficient to support Organizational business and processing requirements stated above.
 - A CORE invoice:
 - Data model, a set of elements that the receiver MUST process.
 - <u>Business rules</u>, a set of business rules that ensure a common way of processing the
 information elements. The rules are stated in a way that allows for automated validation
 of document instances. Issuer of invoices cannot issue documents that conflict with
 these rules.

PEPPOL adds business rules on top of the data model to clarify certain design choices left open by the CEN BII. These choices are intended to lower the implementation threshold by limiting options for implementers and thereby increase interoperability of PEPPOL invoices.

- Technical Interaction (Process and semantic implementation):
 - ▶ Binding to OASIS UBL 2.0, see [UBL]
 - ISO/IEC 19757-3 Schematron, for automation of document validation, see [Schematron]
 - XSLT Stylesheet for presentation of content, see [XSLT]
- Technical Interaction (eSignature Validation):
 - Not mandatory in this PEPPOL BIS. Not supported.
- Technical Transport: Based on BusDox 1.0, see [PEPPOL_Transp].
 - PEPPOL Transport Infrastructure
 - PEPPOL requires all documents to be transported using the PEPPOL Transport Infrastructure.

1.6 PEPPOL Interoperability, conformance and testing support

Participants within the PEPPOL community must claim conformance to be able to register capabilities and participate in document exchange. Conformance is therefore expressed as requirements on the software solution implementing the BIS. More information on testing support can be found at [PEPPOL_PostAward].

1.7 PEPPOL Implementation support

This PEPPOL BIS is bound to UBL 2.0 syntax. PEPPOL provides a set of tools as implementation support. These include:

- Specifications of PEPPOL BIS 5a Basic Invoice Only (this document).
- Implementation guideline for this BIS.
- Business rules and code lists.
- Schematron components for validation of business rules that apply to documents.
- Stylesheet for presentation of Core data elements.
- A HTML presentation of the CEN BII data model for browsing.
- Validation web site
- Example order documents and test cases

Information on implementation support can be found at PEPPOL Post Award support page, see [PEPPOL PostAward].

PEPPOL has set up the PEPPOL Enterprise Interoperability Architecture (EIA) – that presents the PEPPOL artefacts in a repository. The EIA repository is a three dimensional matrix for organizing results of the project. The PEPPOL EIA is a 3 dimensional cube you can navigate by clicking a one of the blue cell in the frame. For more information about the PEPPOL EIA, see [PEPPOL_EIA].

The latest version of this document can be found in: Post Award eProcurement / ICT Architecture / Models.

1.8 References

[PEPPOL] http://www.peppol.eu/





[PEPPOL_EIA] http://www.peppol.eu/peppol_components/peppol-eia/eia

[PEPPOL_PostAward] http://www.peppol.eu/peppol_components/peppol-eia/eia#ict-architecture/post-award-

eprocurement/models

[PEPPOL_Transp] http://www.peppol.eu/peppol_components/peppol-eia/eia#ict-architecture/transport-

infrastructure/models

[CEN_BII] www.cen.eu/cwa/bii/specs [CEN_BII2] http://www.cenbii.eu

[BII_Billing] http://www.cen.eu/cwa/bii/specs/ProfileS/ProfileDoc/BII profile 05 - Billing v1.pdf

[BII InvoiceModel] An browsable HTML version:

http://www.cen.eu/cwa/bii/specs/Profiles/Data/html/CoreTrnsDm/BiiCoreTrdm010 Invoice;

1.0; CENBII/D1.htm and MS-Excel version:

http://www.cen.eu/cwa/bii/specs/Profiles/Data/TrnsDm/CoreTrnsDm/BiiCoreTrdm010

Invoice; 1.0; CENBII.xls

[BII_CreditNoteModel] An browsable HTML version:

http://www.cen.eu/cwa/bii/specs/Profiles/Data/html/CoreTrnsDm/BiiCoreTrdm014

CreditNote; 1.0; CENBII/D1.htm

and MS-Excel version:

http://www.cen.eu/cwa/bii/specs/Profiles/Data/TrnsDm/CoreTrnsDm/BiiCoreTrdm014

CreditNote; 1.0; CENBII.xls

[BII_DebitNoteModel] An browsable HTML version:

http://www.cen.eu/cwa/bii/specs/Profiles/Data/html/CoreTrnsDm/BiiCoreTrdm015

CorrectWithDebit; 1.0; CENBII/D1.htm

and MS-Excel version:

http://www.cen.eu/cwa/bii/specs/Profiles/Data/TrnsDm/CoreTrnsDm/BiiCoreTrdm015

CorrectiveInvoice; 1.0; CENBII.xls

[UBL] http://docs.oasis-open.org/ubl/os-UBL-2.0/UBL-2.0.html

 [UBL_Invoice]
 http://docs.oasis-open.org/ubl/cs-UBL-2.0/xsd/maindoc/UBL-Invoice-2.0.xsd

 [UBL_CredtNote]
 http://docs.oasis-open.org/ubl/cs-UBL-2.0/xsd/maindoc/UBL-CreditNote-2.0.xsd

 [UBL_DebitNote]
 http://docs.oasis-open.org/ubl/cs-UBL-2.0/xsd/maindoc/UBL-DebitNote-2.0.xsd

[Schematron] http://www.schematron.com http://www.w3.org/TR/xslt20/

[DIR 2006/112/EC] Council Directive 2006/112/EC of 28 November 2006 on the common system of value

added tax, found at:

http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006L0112:EN:NOT

[DIR 1999/93/EC] Directive 1999/93/EC of the European Parliament and of the Council of 13 December

1999 on a Community framework for electronic signatures, found at:

http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:31999L0093:EN:NOT

[EIF] European Interoperability Framework 2.0, found at:

http://ec.europa.eu/isa/library/index_en.htm

http://ec.europa.eu/isa/documents/isa_annex_ii_eif_en.pdf





2 Legal Interoperability

This chapter describes the legal scope for adoption of PEPPOL Business Interoperability Specifications (BIS) 5a – Billing. These requirements apply to Contracting Authorities (Customers) and Economic Operators (Suppliers) who reside in countries whose eProcurement legal frameworks are aligned with requirements as stated in this specification.

This BIS provides support for calculation and reporting of VAT according to the relevant EU Directive and should provide necessary elements for national legal VAT requirements that apply for invoices issued to national and foreign buyers:

- Directive 2006/112/EC of 28 November 2006 on the common system of value added tax (hereafter referred to as 'Directive 2006/112/EC') is the main body of EU level legislation on elnvoicing. The Invoicing Directive 2001/115/EC, was incorporated into the VAT Directive (2006/112/EC) as from 1 January 2007, see [DIR_2006/112/EC].⁶
- This BIS aims to provide for information that is legally mandatory for invoicing in the EU member states. National requirements from one country cannot impose upon another country.

2.1 Billing

The process of billing involves transmission of invoice and optional credit note and optional corrective invoice between trading partners.

The legal requirements for the SubmitInvoice transaction BiiCoreTrdm010 in this BIS are the same as in BIS 4a - Basic Invoice only, further information can be found at [PEPPOL_PostAward].

The legal requirements for a Credit Note, CorrectWithCredit transaction BiiCoreTrdm014 are the same as legal requirements for an invoice transaction BiiCoreTrdm010 already described in BIS 4a - Basic Invoice only, further information can be found at [PEPPOL_PostAward].

The legal requirements for a Corrective Invoice, CorrectWithDebit transaction BiiCoreTrdm015 are the same as legal requirements for an invoice transaction BiiCoreTrdm010 described in BIS 4a - Basic Invoice only, further information can be found at [PEPPOL PostAward].

For more information please refer to [PEPPOL_PostAward].

⁶ See European Commission study: Analysis of Business Requirements for e-Invoicing in a Public Procurement Context. 2009.





3 Organizational - Organization/Business Interoperability

Organizational/Business requirements for billing originate from the business context and the goods and services in scope for the procurement. These requirements reflect on the end-to-end communication between customer and supplier and enable linking of in-house processes between them. The business objective of electronic invoicing is to achieve interoperation between the in-house business processes of the sending and receiving organization.

3.1 Peppol as CEN BII extension

The Peppol project, has adopted the BII profile specification as basis for invoicing for public procurement in Europe. For implementing the BII profiles PEPPOL has identified number of issues.

- In some cases the BII profiles provide options for entering data, e.g. in the case of addresses that can be entered either by providing address details or by using identifiers. PEPPOL makes a choice from those options to improve interoperability.
- The BII orientation towards compliance to the EU directive on VAT is different from the PEPPOL orientation. Whereas BII provides the necessary elements in the core profile specifications for complying to the EU directives on VAT, PEPPOL seeks to define rules that enforce compliance.
- BII is designed for cross border trade. For implementation it is however realized that all invoice are issued within the legal domain of a country and consequently need to comply with the legal requirements imposed on the supplier.
- It is the end goal of the project to promote wide spread adoption of electronic invoices by suppliers who supply governments in different countries. It is assumed that only those who already have considerable trade with the public sector across borders would adopt invoicing solutions that only work for cross border trade and then use another solution for their domestic trade. Considering that most companies do most of their business domestically it is considered important that the solutions can be implemented as a single solution for domestic as well as cross border trade with different countries.

To address the above issues PEPPOL has made use of the extension functionality that is part of the BII profiles. The role of this extension is to enforce those choices.

3.2 Organizational scope

In this BIS:

- a service provider acting on behalf of buyer / seller can issue / receive the invoice.
- any mapping done to / from in-house or internal network formats by either party or service providers on their behalf is out of scope for PEPPOL and is the responsibility of the relevant trading partner.
- the customer must be registered in a PEPPOL recognized SMP for receiving invoice documents.
- This BIS provides support for semi automated processing of invoices by the receiver and can be used as basis for automated processing of invoices.

3.3 Business requirements

The CEN BII workshop specifies a core invoice document that is intended to meet legal requirements in all countries of Europe for invoices originating abroad, as well as supporting most common business needs. In some cases the BII document does this by providing options. The PEPPOL project has identified some issues where it is beneficial to select from those and state as part of this PEPPOL BIS.

The business requirements identified are the following:

Org01 In all countries participating in PEPPOL there are legal requirements that invoices should include address information for the customer/buyer and the supplier/seller and their names. In some countries this information can be given either by using identifiers that refer to a registry that holds the name and detailed address or by providing the name and address details directly in the invoice. In other country however only the latter approach, giving the name and address details in the invoice, is accepted. This means that if cross border invoices in PEPPOL always include the party name and its address details then they should comply with the law in all participating country. Consequently all invoices should at minimum contain the customer and suppliers name and address detail as

- >> street name and building number
- >> city name
- >> zip code





country code

- Org02 In the BII core invoice it is not possible to give VAT tax categorization for allowances and charges on document level. These amounts may carry VAT so the categorization must be given.
- Org03 For payment means in cross border trade it is recommended that parties use the SEPA payment system which uses the IBAN and the BIC codes for identification. To increase consistency PEPPOL sets the rule that IF the IBAN is used THEN BIC SHOULD also be used.
- Org04 In order to align with the structure of most ERP systems and to comply with legal requirements of some participating countries it is required to provide the quantity for each line.
- Org05 Some code list and identifier elements in the BII core invoice do not specify what code list or identifier schema should be used which implies that the sender can use any or has to agree with the receiver which one should be used. Limiting the choice of code lists and identifier a schema reduces the set that need to be considers and improves interoperability.
 - The choice of party, postal address and location identifiers needs to be limited to a stated list which currently includes: GLN
 - The choice of standard item identifiers needs to be limited to a stated list which currently includes: GTIN
 - The choice of commodity classification code lists needs to be limited to a stated list which currently includes: UN/SPSC, CPV, eClass
 - The choice of financial institution identification identifiers needs to be limited to a stated list which currently includes: BIC
 - When giving VAT tax exemption reason it should be given as code using the CWA 15577 tax exemption code list. Version 2006.
- Org06 The BII normative documentation defines specific codes or code lists but those are not expressed in the BII validation artefacts. In order to enforce correct implementation these need to be expressed in the PEPPOL validation artefacts.
 - For the embedded document binary object the Mime code in attribute should be MIMEMediaType.
- Org07 For deciding when different rules apply the definition of cross border and domestic is as follows:
 - The nationality of a party is determined by his legal registration country. If that is not provided in an invoice it is assumed to be the same as the postal address. Nationality is the country to which the party is liable for tax. An invoice is considered to be cross border if the nationality of the customer and the supplier is not the same, else it is considered to be domestic.
- Org08 For improving conformance to the EU VAT directive 2006/112 the PEPPOL implementation applies additional rules that "enforce" compliance in cases where BII specification only "provide" for compliance by including necessary elements as optional. Both for regular VAT and reverse charge VAT.
- Org09 For the purpose of aligning implementations the amounts of allowance and charges as well as related multipliers are forced to be non-negative, i.e. a negative allowance must be treated as charge and vice versa. For completeness in calculation base amount and multiplier must both be given if used.
- Org10 For the purpose of aligning implementations the payable amount is forced to be a non-negative and periods MUST contain either start or an end date.
- Org11 The creditor is also the issuer of the invoice, meaning that no self billing or factoring is involved.
- Org12 Following policies apply to use of decimals and rounding in all PEPPOL documents:
 - Currency amounts are stated with maximum 2 decimals rounded as necessary.
 - VAT rates are stated as percentages with maximum 2 decimals. E.g. twenty one and one third percent is stated as 21.33
 - Quantity is stated with maximum 3 decimals.
 - Unit prices are stated with maximum of 4 decimals.





- Org13 A core invoice must support reverse charge invoices which are those were the seller does not charge VAT in the invoice but instead the buyer settles the VAT according to the VAT rules that apply in the Member State where the supply takes place. EU directive 2006/112/EC, 194 199a.
- Org14 For the purpose of increased flexibility, the mandatory reference to an invoice, in the credit note shall be optional. This allows parties to exchanges a stand alone credit notes without any reference to previous invoices.
- Org15 To align Credit Note tax information with invoice tax information PEPPOL adds the Tax Point Date field to the Credit Note.
- Org16 By enabling the Credit Note as a standalone document the need for reference information to be aligned with the invoice, is increased. PEPPOL would like to support this need by adding the following information classes to the model.
 - Contract Document Reference
 - Additional Document Reference
- Org17 In the BII core credit note it is not possible to give VAT tax categorization for allowances and charges on document level. These amounts may carry VAT so the categorization must be given.

3.4 PEPPOL Policy for using Identifiers

PEPPOL project has defined a "Policy for Using Identifiers" [PEPPOL_Transp] that describes the policy for using the correct identifiers in both its transport infrastructure and within the documents exchanged across that infrastructure. It also introduces principles for any identifiers used in the PEPPOL environment. The policies that apply to this BIS are the following:

- Org21 Policy 8. XML attributes for Party Identifiers in UBL documents

 The "schemeID" attribute must be populated in all instances of the "ID" element when used within a
 "PartyIdentification" container and in all instances of the "EndpointID" element when used within a
 "Party" container.
- Org22 Policy 11 PEPPOL Customization Identifiers.

 The PEPPOL Customization Identifier identifies the standardised transaction (e.g. BII transaction) and any PEPPOL extension, as it applies to the transaction. The full syntax is:

 <transactionId>:#
- Org23 Policy 12 Specifying Customization Identifiers in UBL documents

 The value for CustomizationID element in the document instance MUST correspond to the
 Customization ID of the BusDox Document Identifier (see POLICY 11). In addition, the "schemeID"
 attribute must specify 'PEPPOL' to indicate this convention is a PEPPOL policy.
- Org24 Policy 16 PEPPOL Process Identifiers
 PEPPOL processes are identified by the respective BII processes. The process identifier has to match
 the BII profile ID.



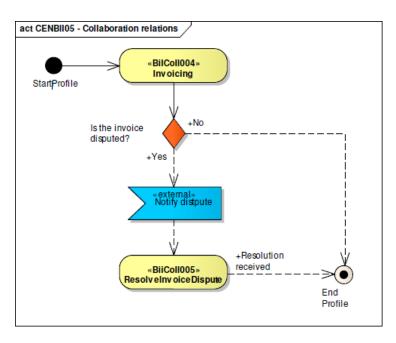


4 Organizational - Process Interoperability

The PEPPOL project, has adopted the BII profile specifications as basis for public procurement in Europe. This PEPPOL BIS reuses the collaboration specifications as a means of controlling the interaction between the trading parties.

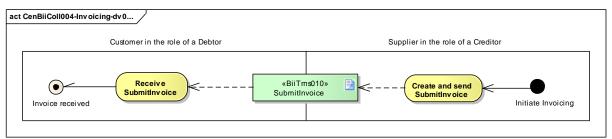
4.1 CEN ISSS WS/BII Profile

In billing, documents like invoice, credit note and debit note, need to be exchanged between the Economic Operator and the Contracting Authority in a specified process that is understood, agreed and supported by both parties. The CEN ISSS WS/BII architecture design is intended to support object-oriented implementations. This is achieved by grouping messages into objects that can be arranged differently in various profiles. These objects are called collaborations and they may contain one or more message, implemented as transactions. These objects can be reused in different profiles. The invoicing and ResolveInvoiceDispute collaborations are defined as part of the CEN ISSS WS/BII profile BII05, see [BII_Billing]. It contains one business processes, the billing process that contains two business collaborations, Invoicing collaboration and ResolveInvoiceDispute collaboration.



4.2 Invoicing collaboration

The BiiColl004 collaboration contains the BII transaction BiiTrns010 that includes a data model that specifies the information to be sent in any Invoice from the Economic Operator (supplier) to the Contracting Authority (buyer).



The creditor activates the invoicing collaboration to send an invoice to the debtor.

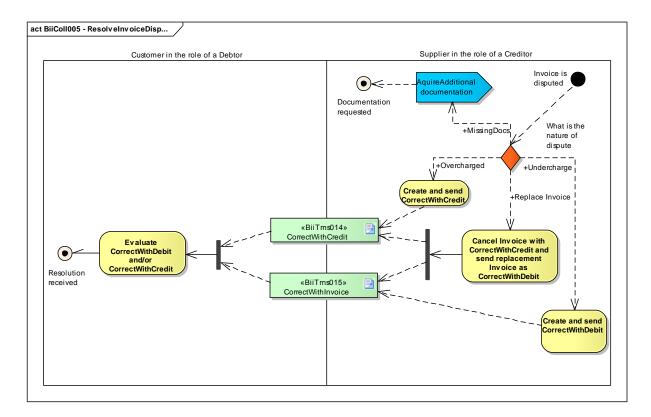
- Requirements on the Invoicing Collaboration are stated in the PEPPOL BIS 4a document
- There are no PEPPOL BIS 5a additional business rules that apply to the invoicing collaboration.

4.3 ResolveInvoiceDispute collaboration

The BiiColl005 collaboration contains the BII transactions BiiCoreTrdm014 and BiiCoreTrdm015 that include data models that specify the information to be sent in any CorrectWithCredit and CorrectWithDebit from the Economic Operator (supplier) to the Contracting Authority (buyer). Any invoice dispute is resolved outside of this BIS description.





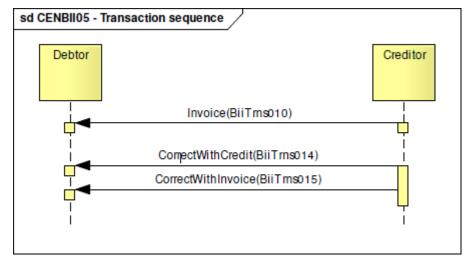


- The creditor can resolve overcharge by sending a credit note.
- The creditor can resolve undercharge by issuing an additional invoice.
- The creditor can resolve undercharge by cancelling the original invoice with credit note and issuing an additional invoice.
- An invoice dispute is raised externally by the debtor to the creditor.

4.4 Transaction data models overview

The figure below identifies the electronic messages exchanged as part of BII profile BII05 and the sequence in which these documents are exchanged.

The BII transaction data model is a specification of the data that is sent between trading partners.







4.5 PEPPOL process business rules

As stated in requirement Org-14, PEPPOL would like to relax one restriction placed on the process. BII demands that the resolve invoice dispute collaboration should always refer to the document being disputed. The reality is that trading partner have many different business reasons for exchanging credit notes without referring explicitly to a previously issued invoice.

PEPPOL focus is to provide guidelines on document structure and consistency but not limit the way trading partners do business. PEPPOL would therefore like to make the reference to previous invoice as optional reference, thereby allowing implementers to use this profile to send stand-alone credit notes.

Examples of such business cases would be volume discount and period discount or balancing.





5 Semantic Interoperability

The PEPPOL BIS data model is based on the CEN/ISSS WS/BII workshop results [CEN_BII]. They define transaction data models for the information content of a business transaction exchanged within the scope of a BIS. In CEN BII the transaction data models used for CEN ISSS WS/BII Profile 05 – Billing are:

- SubmitInvoice CEN/ISSS WS/BII BiiCoreTrdm010
- CorrectWithCredit CEN/ISSS WS/BII BiiCoreTrdm014
 CorrectWithDebit CEN/ISSS WS/BII BiiCoreTrdm015

Information about these data models can be viewed on the CEN BII web site, see [CEN_BII]. Please note that changes that PEPPOL has done to the data model are not represented in the BII web site.

- In MS-Excel table format.
- In HTML browsable format,

A PEPPOL extension is identified as: eugen

5.1 Legal requirements, mapping to semantic model

Supporting legal requirements has already been described and documented in BIS 4a - Basic Invoice only, further information can be found at [PEPPOL_PostAward].

5.2 PEPPOL extensions - validation rules for national requirements

In many cases this PEPPOL BIS is sufficient for managing the exchange of documents from issuer to receiver without any previous bi-lateral agreements. The strict set of rules ensures common understanding of most important information elements within an invoice. In other cases the contractual arrangement between the parties requires adaption, like additional requirements on sender to apply further restrictions or provide additional information elements to the invoice document. Such an extension is a "set" of one or more business rules that can be applied to a message in order to achieve a specific objective that is not specifically supported by the core message specification. In CEN BII terminology this is called an extension.

To conform with PEPPOL specifications, an extension may not conflict with the core specification, i.e. a message that can be validated with an extension must also validate with the CENBII core specifications. Extensions can be used to modify the data model and the business rules but not for adding or removing transactions/message to the message flow specified in the relevant BIS document.

Extensions can involve different changes but most commonly they are concerned with:

- Restricting the cardinality of elements that are optional in the core message specification.
- Requiring elements that are not in the core message specification.
- Applying co-occurrence rules on elements and calculation rules.
- Restricting code list values.

In line with this approach, various PEPPOL participants have developed a set of business rules that clarify national requirement placed on issuers of invoices within their legal regime. These rules are also available as Schematron and can be used for validation of documents.

For further information on extensions and national rules for PEPPOL invoices, see [PEPPOL_PostAward] for more information.





6 BIS 5a – Invoice Transaction Data Model

In BIS 5a – Billing, the invoice data model is based on TRDM010 invoice transaction from CEN BII. Information about this data model can also be viewed on the CEN BII web site, see [CEN_BII]. Please note that changes that PEPPOL may have done to the data model are not represented in the BII web site.

- In MS-Excel table format.
- In HTML browsable format,

See [BII_InvoiceModel].for further information.

6.1 BIS 5a -Invoice

Implementation of the invoice transaction has already been described and documented in

- BIS 4a Basic Invoice only
- Implementation Guideline for BIS 4a Basic Invoice only

Further information can be found at [PEPPOL_PostAward].





7 BIS 5a - CorrectWithCredit Transaction Data Model

In BIS 5a – Billing, the credit note data model is based on TRDM014 CorrectWithCredit transaction from CEN BII. Information about this data model can also be viewed on the CEN BII web site. Please note that changes that PEPPOL may have done to the data model are not represented in the BII web site.

- In MS-Excel table format.
- In HTML browsable format,

See [BII_CreditNoteModel] .for further information.

The following tables show the elements in a Core Credit Note.

- First two columns show the Cardinality of the element.
- The element name (element preceded with a "+" sign is a class, the rest are simple elements).
- The last column states restrictions, references, business rules or code list that may apply to the field.
- Please note that the order of elements when used in credit notes must follow the order stated in the below list. For more information please refer to [UBL].

7.1.1 BIS 5a - The CorrectWithCredit header

The following table shows the content of the core CorrectWithCredit header:

Cardinality		Element name	Restriction
1	1	CreditNote/UBL Version Identifier/Identifier	BIIRULE-T14-R031
1	1	CreditNote/Customization Identifier/Identifier	Org23 BIIRULE-T14-R032
1	1	CreditNote/Profile Identifier/Identifier	Org24 BIIRULE-T14-R033 BIIPROFILE-T01-R001
1	1	CreditNote/Identifier	BIIRULE-T14-R026
1	1	CreditNote/Issue Date/Date	BIIRULE-T14-R025
0	1	CreditNote/Note/Text	
0	1	CreditNote/Tax Point Date/Date	PEPPOL Addition, Org15
1	1	CreditNote/Document Currency Code/Code	EUGEN-T14-R024 CL-014-002
0	1	CreditNote/Accounting Cost/Text	
0	1	+CreditNote/Invoice Period/Period	BIIRULE-T14-R001 EUGEN-T14-R020 EUGEN-T14-R021
0	1	Period/Start Date/Date	
0	1	Period/End Date/Date	
0	1	+CreditNote/Billing Reference	Org14
0	1	+Billing Reference/Invoice Document Reference/Document Reference	
1	1	Document Reference/Identifier	
0	1	+Billing Reference/CreditNoteDocumentReference/Document Reference	
1	1	Document Reference. Identifier	
0	1	+CreditNote/Contract Document Reference/Document Reference	PEPPOL addition, Org16
1	1	Document Reference/Identifier	BIIRULE-T14-R053
0	1	Document Reference/Document Type/Text	
0	n	+CreditNote/Additional Document Reference/Document Reference	PEPPOL addition, Org16
1	1	Document Reference/Identifier	BIIRULE-T14-R054
0	1	Document Reference/Document Type/Text	
0	1	+Document Reference/Attachment	
0	1	Attachment/Embedded Document/Binary Object	PCL-014-001
0	1	+Attachment/External Reference	





Cardinality		Element name	Restriction
1	1	External Reference/URI/Identifier	
1	1	+CreditNote/Accounting Supplier Party/Supplier Party	
1	1	+Supplier Party/Party	
0	1	Party/Endpoint Identifier/Identifier	PCL-014-009
0	1	+Party/Party Identification	. 52 311 333
1	1	Party Identification/Identifier	PCL-014-008
1	1	L Porty/Porty Nome	. 52 311 333
1	1	Party Name/Name	BIIRULE-T14-R028
1	1	Down / Dontol Address / Address	EUGEN-T14-R001
0	1	+Party/Postal Address/Address	PCL-014-003
0	1	Address (Death sy/Tay)	1 02 011 000
1	1	Address/Postbox/Text	
0	1	Address (Additional Ctreet Name (Name	
0	1	Address/Additional Street Name/Name Address/Building Number/Text	
0	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1	1	Address (City Name (Name	
1	1	A Livery Description of Text	
-	-		
0	1	Address/Country Subentity/Text	
0	1	+Address/Country	CL-014-003
1	1	Country/Identification Code/Code	BIIRULE-T14-R042
0	1	+Party/Party Tax Scheme	
0	1	Party Tax Scheme/Company Identifier/Identifier	EUGEN-T14-R007 BIIRULE-T14-R003
1	1	+Party Tax Scheme/Tax Scheme	
1	1	Tax Scheme/Identifier	CL-014-004
0	1	+Party/Party Legal Entity	
1	1	Party Legal Entity/Company Identifier/Identifier	BIIRULE-T14-R039
0	1	+Party/Contact	
0	1	Contact/Telephone/Text	
0	1	Contact/Telefax/Text	
0	1	Contact/Electronic Mail/Text	
0	1	+Party/Person	
0	1	Person/First Name/Name	
0	1	Person/Family Name/Name	
0	1	Person/Middle Name/Name	
0	1	Person/Job Title/Text	
1	1	+CreditNote/Accounting Customer Party/Customer Party	
1	1	+Customer Party/Party	
0	1	Party/Endpoint Identifier/Identifier	PCL-014-009
0	1	+Party/Party Identification	
1	1	Party Identification/Identifier	PCL-014-008
1	1	+Party/Party Name	
1	1	Party Name/Name	BIIRULE-T14-R029
0	1	+Party/Postal Address/Address	EUGEN-T14-R002
0	1	Address/Identifier	PCL-014-003
0	1	Address/Postbox/Text	
1	1	Address/Street Name/Name	
0	1	Address/Additional Street Name/Name	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	





Card	linality	Element name	Restriction
0	1	Address/Building Number/Text	
0	1	Address/Department/Text	
1	1	Address/City Name/Name	
1	1	Address/Destal Zene/Toyt	
0	1	A Llarge (October 1977)	-
0	1	Address/Country Subentity/Text	
	'		CL-014-003
1	1	Country/Identification Code/Code	BIIRULE-T14-R042
0	1	+Party/Party Tax Scheme	
0	1	Party Tax Scheme/Company Identifier/Identifier	BIIRULE-T14-R005
1	1	+Party Tax Scheme/Tax Scheme	
1	1	Tax Scheme/Identifier	CL-014-004
0	1	+Party/Party Legal Entity	
1	1	Party Legal Entity/Company Identifier/Identifier	BIIRULE-T14-R039
0	1	+Party/Contact	
0	1	Contact/Telephone/Text	
0	1	Contact/Telefax/Text	
0	1	Contact/Felectronic Mail/Text	
0	1	+Party/Person	
0	1	Person/First Name/Name	
0	1	1 1 1 2 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
0	1	5 (25.11) 21 (25.11)	-
0	1	Person/Middle Name/Name Person/Job Title/Text	
0	1	4 +	
0	1	+CreditNote/Payee Party/Party +Party/Party Identification	
1	1	Party Identification/Identifier	PCL-010-008
			FCE-010-008
0	1	+Party/Party Name	
1	1	Party Name/Name	
0	1	+Party/Party Legal Entity	
1	1	Party Legal Entity/Company Identifier/Identifier	
0	n	+CreditNote/Allowance Charge	
1	1	Allowance Charge/Charge Indicator/Indicator	FUOEN TAA DOOR
0	1	Allowance Charge/Allowance Charge Reason/Text	EUGEN-T14-R023
1	1	Allowance Charge/Amount	EUGEN-T14-R022
		Allowance Charge/Accounting Cost. Text	DEDDOL 155
0	1	+ Allowance Charge/Tax Category	PEPPOL addition Org17
1	1	Tax Category/Identifier	CL-014-005 BIIRULE-T14-R045 EUGEN-T14-R004
0	1	Tax Category/Percent	
1	1	+Tax Category/Tax Scheme	
1	1	Tax Scheme/Identifier	CL-014-004 BIIRULE-T14-R046
1	1	+CreditNote/Tax Total	
1	1	Tax Total/Tax Amount/Amount	
0	n	+Tax Total/Tax Subtotal	
1	1	Tax Subtotal/Taxable Amount/Amount	BIIRULE-T14-R030
<u> </u>	<u> </u>	1 ax Subtotal Laxable Amount Amount	BIIRULE-T14-R043
1	1	Tax Subtotal/Tax Amount/Amount	BIIRULE-T14-R010 BIIRULE-T14-R044





Cardinality		Element name	Restriction
1	1	+Tax Subtotal/Tax Category	
1	1	Tax Category/Identifier	CL-014-005 BIIRULE-T14-R045 EUGEN-T14-R012
0	1	Tax Category/Percent	EUGEN-T14-R012
0	1	Tax Category/Tax Exemption Reason Code/Code	PCL-014-007
0	1	Tax Category/Tax Exemption Reason/Text	EUGEN-T14-R013
1	1	+Tax Category/Tax Scheme	BIIRULE-T14-R009
1	1	Tax Scheme/Identifier	CL-014-004 BIIRULE-T14-R046
1	1	+CreditNote/Legal Monetary Total/Monetary Total	
1	1	Monetary Total/Line Extension Amount/Amount	BIIRULE-T14-R011 BIIRULE-T14-R041
1	1	Monetary Total/Tax Exclusive Amount/Amount	BIIRULE-T14-R030 BIIRULE-T14-R012 BIIRULE-T14-R040
1	1	Monetary Total/Tax Inclusive Amount/Amount	BIIRULE-T14-R013 BIIRULE-T14-R038 BIIRULE-T14-R014
0	1	Monetary Total/Allowance Total Amount/Amount	BIIRULE-T14-R015
0	1	Monetary Total/Charge Total Amount/Amount	BIIRULE-T14-R016
0	1	Monetary Total/Prepaid Amount/Amount	
0	1	Monetary Total/Payable Rounding Amount/Amount	
1	1	Monetary Total/Payable Amount/Amount	BIIRULE-T14-R017 BIIRULE-T14-R037 EUGEN-T14-R019
1	n	+CreditNote/Credit Note Line	BIIRULE-T14-R035

Table 1 Information Elements in a Core CorrectWithCredit Header

7.1.2 BIS 5a - The CorrectWithCredit line

The following table shows the content of the core CorrectWithCredit line:

Card	linality	Element name	Restriction
1	1	CreditNote Line/Identifier	BIIRULE-T14-R034
0	1	CreditNote Line/Credited Quantity/Quantity	Org03 EUGEN-T14-R003
1	1	CreditNote Line/Line Extension Amount/Amount	BIIRULE-T14-R018 BIIRULE-T14-R050
0	1	CreditNote Line/Accounting Cost/Text	
0	1	+CreditNote Line/Tax Total	
1	1	Tax Total/Tax Amount/Amount	
1	1	+CreditNote Line/Item	
0	1	Item/Description/Text	
1	1	Item/Name	BIIRULE-T14-R027 BIIRULE-T14-R019
0	1	+Item/Sellers Item Identification/Item Identification	
1	1	Item Identification/Identifier	
0	1	+Item/Standard Item Identification/Item Identification	BIIRULE-T14-R020
1	1	Item Identification/Identifier	PCL-010-005
0	N	+Item/Commodity Classification	BIIRULE-T14-R021
0	1	Commodity Classification/Item Classification Code/Code	PCL-010-006
0	1	+Item/Classified Tax Category/Tax Category	





1	1	Tax Category/Identifier	CL-014-005 BIIRULE-T14-R045 EUGEN-T14-R031
1	1	+Tax Category/Tax Scheme	
1	1	Tax Scheme/Identifier	CL-014-004 BIIRULE-T14-R046
1	1	+CreditNote Line/Price	
1	1	Price/Price Amount/Amount	BIIRULE-T14-R022
0	1	Price/Base Quantity/Quantity	
0	1	+Price/Allowance Charge	
1	1	Allowance Charge/Charge Indicator/Indicator	
0	1	Allowance Charge/Allowance Charge Reason/Text	
0	1	Allowance Charge/Multiplier Factor/Numeric	
1	1	Allowance Charge/Amount	
0	1	Allowance Charge/Base Amount/Amount	

Table 2 Information Elements in a Core CorrectWithCredit Transaction Line

7.1.3 Syntax mapping to UBL

The UBL schema for CorrectWithCredit can be downloaded from link [UBL_CreditNote].

7.2 BIS 5a – CorrectWithCredit, Business Rules (BiiCoreTrdm014)

The PEPPOL ruleset is a set of rules that clarify the content by stating mandatory fields, content rules like codelists, calculation rules and dependency rules for individual fields. Issuers of orders that produce messages that do not contradict any of these rules can be certain that anyone claiming conformance to PEPPOL can receive and process these messages.

PEPPOL has stated the following abstract rule in order to facilitate interoperability in cross border trade as well as compliance to EU legal directives. The rules are grouped into four sections depending on their scope and origin. It is important for implementers to note that documents issued by PEPPOL participants claiming conformance, MUST conform to the business rules stated in this BIS.

All the following rules have accompanying error level that can be stated as:

- warning the rule points to an issue that would provide clarifying or information that increases consistency and aids interoperability. The rule should be applied to the message.
 - A sender of message should NOT send messages that might raise warnings.
 - >> Receivers of messages should not reject messages that raise warnings.
- fatal the rule point to a major issue of consistency or data correctness.
 - A sender of message should NOT send messages that will raise fatal errors.
 - Receivers of messages can be expected to reject messages that raise fatal errors.

As support for implementers PEPPOL has made available:

- A Schematron implementation of the rules
- PEPPOL document validation service.

See [PEPPOL PostAward] for more information.

7.2.1 BII Core Rules (biicore)

These are BII rules that are concerned with the CORE Credit Note data model. This set of rules is syntax specific and reflects PEPPOL use of mapping to UBL 2.0. It restricts use of classes by changing their cardinality.

The mapping of rules to Schematron also identifies rules of checking for presence of additional content that is not part of the core specifications. These rules are not listed here since they are not part of the specifications.





Rule No.	Rule	Error level
BIICORE-T14-R001	An invoice SHOULD not contain empty elements.	warning
BIICORE-T14-R398	Element 'Partyldentification' may occur at maximum 1 times.	warning
BIICORE-T14-R399	Element 'PartyName' must occur exactly 1 times.	warning
BIICORE-T14-R400	Element 'PartyTaxScheme' may occur at maximum 1 times.	warning
BIICORE-T14-R401	Element 'Partyldentification' may occur at maximum 1 times.	warning
BIICORE-T14-R402	Element 'PartyName' must occur exactly 1 times.	warning
BIICORE-T14-R403	Element 'PostalAddress' must occur exactly 1 times.	warning
BIICORE-T14-R404	Element 'PartyTaxScheme' may occur at maximum 1 times.	warning
BIICORE-T14-R405	Element 'TaxTotal' may occur at maximum 1 times.	warning
BIICORE-T14-R406	Element 'Price' must occur exactly 1 times.	warning
BIICORE-T14-R407	Element 'Description' may occur at maximum 1 times.	warning
BIICORE-T14-R408	Element 'Name' must occur exactly 1 times.	warning
BIICORE-T14-R409	Element 'ClassifiedTaxCategory' may occur at maximum 1 times.	warning
BIICORE-T14-R410	Element 'AllowanceCharge' may occur at maximum 1 times.	warning
BIICORE-T14-R411	Element 'TaxExclusiveAmount' must occur exactly 1 times.	warning
BIICORE-T14-R412	Element 'TaxInclusiveAmount' must occur exactly 1 times.	warning
BIICORE-T14-R413	Element 'Partyldentification' may occur at maximum 1 times.	warning
BIICORE-T14-R414	Element 'PartyName' may occur at maximum 1 times	warning
BIICORE-T14-R415	Element 'ID' must occur exactly 1 times.	warning

7.2.2 BII Profile Rules (biiprofile)

These are BII rules that are concerned with profile level issues. They respond to the ProfileID in an invoice.

Rule No.	Rule	Error level
BIIPROFILE-T14-R001	Credit Note transaction T14 MUST only be used in BIS 5 or 6.	fatal
BIIPROFILE-T14-R002	Credit Note transaction T14 in BIS 6 MUST have an order reference identifier.	fatal

7.2.3 BII and PEPPOL Semantic Rules (biirules and eugen)

These are the rules that BII and PEPPOL have identified that are concerned with the semantics of the data. They are the European common ordering rules identified. These are issues like rules on content, dependency and calculations. BII rules have the "BIIRULE" prefix while PEPPOL rules are prefixed with "EUGEN". For readability the rules are grouped together by scope.

General rules:

Rule No.	Rule	Error level
BIIRULE-T14-R031	A Credit Note MUST have a syntax identifier.	fatal
BIIRULE-T14-R032	A Credit Note MUST have a customization identifier.	fatal
BIIRULE-T14-R033	A Credit Note MUST have a profile identifier.	fatal
BIIRULE-T14-R025	A Credit Note MUST have the date of issue.	fatal
BIIRULE-T14-R026	A Credit Note MUST have a Credit Note number.	fatal
BIIRULE-T14-R036	A Credit Note MUST specify the currency code for the document.	fatal





BIIRULE-T14-R001	An invoice period end date MUST be later or equal to an invoice period start date	fatal
EUGEN-T14-R024 Currency Identifier MUST be in stated in the currency stated on header level.		fatal
EUGEN-T14-R020	If the credit note refers to a period, the period MUST have an start date.	fatal
EUGEN-T14-R021	If the credit note refers to a period, the period MUST have an end date.	fatal
BIIRULE-T14-R053	Any reference to a contract MUST specify the contract identifier.	fatal
BIIRULE-T14-R054	Any reference to a document MUST specify the document identifier.	fatal

Parties:

Rule No.	Rule	Error level
BIIRULE-T14-R028	BIIRULE-T14-R028 A Credit Note MUST contain the full name of the supplier.	
BIIRULE-T14-R029	A Credit Note MUST contain the full name of the customer.	fatal
		warning
EUGEN-T14-R001 A supplier postal address in a credit note SHOULD contain at least, street name and number, city name, zip code and country code.		warning
BIIRULE-T14-R003	In cross border trade the VAT identifier for the supplier should be prefixed with country code.	warning
BIIRULE-T14-R005 In cross border trade the VAT identifier for the customer should be prefixed with country code.		warning
BIIRULE-T14-R042	BIIRULE-T14-R042 Country in an address MUST be specified using the country code.	
BIIRULE-T14-R039	Company identifier MUST be specified when describing a company legal entity.	fatal

Calculation rules:

Rule No.	Rule No. Rule	
BIIRULE-T14-R018	Credit note line amount MUST be equal to the price amount multiplied by the quantity	
BIIRULE-T14-R011	Credit note total line extension amount MUST equal the sum of the line totals	fatal
BIIRULE-T14-R015	Total allowance MUST be equal to the sum of allowances at document level	fatal
BIIRULE-T14-R016	Total charges MUST be equal to the sum of document level charges.	fatal
BIIRULE-T14-R010	Each tax total MUST equal the sum of the subcategory amounts.	fatal
BIIRULE-T14-R030	If the VAT total amount in a Credit Note exists then the sum of taxable amount in sub categories MUST equal the sum of Credit Note tax exclusive amount.	fatal
BIIRULE-T14-R012	IIRULE-T14-R012 A credit note tax exclusive amount MUST equal the sum of lines plus allowances and charges on header level.	
BIIRULE-T14-R013		
BIIRULE-T14-R017	Amount due is the tax inclusive amount minus what has been prepaid.	fatal
BIIRULE-T14-R037	A Credit Note MUST specify the total payable amount.	fatal
BIIRULE-T14-R038	A Credit Note MUST specify the total amount with taxes included.	fatal
BIIRULE-T14-R040	A Credit Note MUST specify the total amount without taxes.	fatal
BIIRULE-T14-R041	A Credit Note MUST specify the sum of the line amounts.	fatal
EUGEN-T14-R019	Total payable amount in a credit note MUST NOT be negative	fatal
BIIRULE-T14-R014	Tax inclusive amount in a credit note MUST NOT be negative	fatal
BIIRULE-T14-R022	Prices of items MUST be positive or zero	fatal

Taxes:

Rule No.	Rule	Error level	



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BIIRULE-T14-R009	A credit note MUST have a tax total referring to a single tax scheme	fatal
BIIRULE-T14-R043	A Credit Note MUST specify the taxable amount per tax subtotal.	fatal
BIIRULE-T14-R044	BIIRULE-T14-R044 A Credit Note MUST specify the tax amount per tax subtotal.	
BIIRULE-T14-R046	Every tax scheme MUST be defined through an identifier.	fatal
BIIRULE-T14-R045	Every tax category MUST be defined through an identifier.	fatal
EUGEN-T14-R004	If the VAT total amount in a Credit Note exists then an Allowances Charges amount on document level MUST have tax category for VAT.	fatal
EUGEN-T14-R031 If the VAT total amount in a Credit Note exists then each Credit Note line must have a VAT category ID.		fatal
EUGEN-T14-R007 If the VAT total amount in a Credit Note exists it MUST contain the suppliers number.		fatal
EUGEN-T14-R013	JGEN-T14-R013 If the category for VAT is exempt (E) then an exemption reason SHOULD be provided.	
EUGEN-T14-R012	14-R012 For each tax subcategory the category ID and the applicable tax percentage fatal MUST be provided.	
EUGEN-T14-R015		
EUGEN-T14-R016 IF VAT = "AE" (reverse charge) THEN VAT MAY NOT contain other VAT categories.		fatal
EUGEN-T14-R017	EUGEN-T14-R017 IF VAT = "AE" (reverse charge) THEN The taxable amount MUST equal the invoice total without VAT amount.	
EUGEN-T14-R018	IF VAT = "AE" (reverse charge) THEN VAT tax amount MUST be zero.	fatal

Products and services:

Rule No.	Rule	Error level
BIIRULE-T14-R035	A Credit Note MUST specify at least one line item.	fatal
BIIRULE-T14-R034	Credit note lines MUST have a line identifier.	fatal
BIIRULE-T14-R027	Each credit note line MUST contain the product/service name	fatal
BIIRULE-T14-R050	Credit note lines MUST have a line total amount.	fatal
EUGEN-T14-R003	Each credit note line SHOULD contain the quantity and unit of measure	warning
BIIRULE-T14-R019	Product names SHOULD NOT exceed 50 characters long	warning
BIIRULE-T14-R020	If standard identifiers are provided within an item description, an Scheme Identifier SHOULD be provided (e.g. GTIN)	warning
	Classification codes within an item description SHOULD use a standard scheme for codes (e.g. CPV or UNSPSC)	warning

Allowance and Charges:

Rule No.	Rule	Error level
EUGEN-T14-R022	An allowance or charge amount MUST NOT be negative.	fatal
	AllowanceChargeReason text SHOULD be specified for all allowances and charges	warning

7.3 Identifiers, mapping of requirements to semantic model

PEPPOL has no intention of developing a new policy on identifying Parties. The strategy is to recognize a range of different identification schemes and provide a code list of those recognized schemes based on international standards. For further information, see PEPPOL "Policy for Using Identifiers" [PEPPOL_Transp].

Requirement Org21 Policy 8

Policy 8 is implemented as a set of code list rules. For the credit note, see Ch 7.4 on code lists.





PCL-014-008 PCL-014-009

Examples of usage in Partyldentification:

The following examples denotes that the Issuing Agency is DK:CVR in the PEPPOL set of Issuing Agency Codes. This means that the party has the Danish CVR identifier DK87654321.

Examples of usage in Partyldentification and Endpoint ID:

<cbc:EndpointId ID schemeID="DK:CVR">DK87654321</cbc:EndpointId>

Requirement Org22 Policy 11

The following example identifies CorrectWithCredit within "PEPPOL BIS 5a" as extension to the BII BiiCoreTrdm014 data model:

urn:www.cenbii.eu:transaction:biicoretrdm014:ver1.0:#urn:www.peppol.eu:bis:peppol5a:ver1.0

Where:

- Transaction ID: urn:www.cenbii.eu:transaction:biicoretrdm014:ver1.0
- Extension ID: urn:www.peppol.eu:bis:peppol5a:ver1.0
- Please be aware of the different usage of letter "1" and number "1".

For implementers: Please note that CustomizationID element in the document instance MUST correspond to the Customization ID of the SMP Document Identifier.

Requirement Org23 Policy 12

Policy 12 is implemented as follows:

- CustomizationID element MUST follow Policy 11 (see, requirement Org22):
- schemeID MUST equal "PEPPOL"

Example of usage:

<cbc:CustomizationID schemeID="PEPPOL">
urn:www.cenbii.eu:transaction:biicoretrdm014:ver1.0:#urn:www.peppol.eu:bis:peppol5a:ver1.0
</cbc:CustomizationID>

Requirement Org24 Policy 16

Policy 16 mandates that process identifiers MUST match the BII profile ID.

As an example the following process identifier is used for —BII05 - Billing:

<cbc:ProfileID>urn:www.cenbii.eu:profile:bii05:ver1.0</cbc:ProfileID>

For implementers: Please note that process identifiers in the document instance MUST correspond to the SMP process identifier.





7.4 CorrectWithCredit - Code Lists

A number of information elements values are constrained to be those in a list of codes known as Code Lists. The specific Code Lists used for this transaction must be common between business partners in order to achieve interoperability. The following section lists the code lists identified by CEN BII and PEPPOL to be used in the PEPPOL BIS.

More information about PEPPOL use of code lists can be found at [PEPPOL_PostAward].

7.4.1 BII Code list rules (biirules-CodeLists)

The following rules regarding code lists are stated in BII documentation.

Rule ID	Rule description	Severity
CL-014-001	DocumentCurrencyCode MUST be coded using ISO code list 4217	fatal
CL-014-002	currencyID MUST be coded using ISO code list 4217	fatal
CL-014-003	Country codes in a credit note MUST be coded using ISO code list 3166-1	fatal
CL-014-004	Credit Note tax schemes MUST be coded using UN/ECE 5153 code list	warning
CL-014-005	Credit Note tax categories MUST be coded using UN/ECE 5305 code list	warning

7.4.2 PEPPOL Code list rules (eugen-CodeLists)

The following additional code list rules are applied for PEPPOL implementations in addition to the BII rules

Rule ID	Rule description	Severity
PCL-014-001	Mime code in attribute MUST be MIMEMediaType.	fatal
PCL-014-002	Financial Institution SHOULD be BIC code.	warning
PCL-014-003	Postal address identifiers SHOULD be GLN.	warning
PCL-014-004	Location identifiers SHOULD be GLN	warning
PCL-014-005	Standard item identifiers SHOULD be GTIN.	warning
PCL-014-006	Commodity classification SHOULD be one of UNSPSC, eClass or CPV.	warning
PCL-014-007	Tax exemption reasons MUST be coded using Use CWA 15577 tax exemption code list. Version 2006	fatal
PCL-014-008	Party Identifiers MUST use the PEPPOL PartyID list	fatal
PCL-014-009	Endpoint Identifiers MUST use the PEPPOL PartyID list.	fatal





8 BIS 5a - CorrectiveInvoice Transaction Data Model

In BIS 5a – Billing, the debit note data model is based on TRDM015 CorrectiveInvoice transaction from CEN BII. Information about this data model can also be viewed on the CEN BII web site. Please note that changes that PEPPOL may have done to the data model are not represented in the BII web site.

- In MS-Excel table format.
- In HTML browsable format,

See [BII_DebitNoteModel] .for further information.

The following tables show the elements in a Core CorrectiveInvoice.

- First two columns show the Cardinality of the element.
- The element name (element preceded with a "+" sign is a class, the rest are simple elements).
- The last column states restrictions, references, business rules or code list that may apply to the field.
- Please note that the order of elements when used in credit notes must follow the order stated in the below list. For more information please refer to [UBL].

8.1.1 BIS 4a - The CorrectiveInvoice header

The following table shows the content of the core CorrectiveInvoice header: The information model is the same as for the invoice except the added **Invoice/Billing Reference**.

Card	linality	Element name	Restriction
1	1	Invoice/UBL Version Identifier/Identifier	BIIRULE-T10-R029
1	1	Invoice/Customization Identifier/Identifier	Org23 BIIRULE-T10-R030
1	1	Invoice/Profile Identifier/Identifier	Org24 BIIRULE-T10-R031 BIIPROFILE-T10-R001
1	1	Invoice/Identifier	BIIRULE-T10-R024
1	1	Invoice/Issue Date/Date	BIIRULE-T10-R023
1	1	Invoice/Invoice Type Code/Code	CL-010-001
0	1	Invoice/Note/Text	
0	1	Invoice/Tax Point Date/Date	
1	1	Invoice/Document Currency Code/Code	CL-010-002 BIIRULE-T10-R034 BIIRULE-T10-R035
0	1	Invoice/Accounting Cost/Text	
0	1	+Invoice/Invoice Period/Period	BIIRULE-T10-R001 EUGEN-T10-R020 EUGEN-T10-R021
0	1	Period/Start Date/Date	
0	1	Period/End Date/Date	
0	1	+Invoice/Order Reference	BIIPROFILE-T10-R002
1	1	Order Reference/Identifier	BIIRULE-T10-R035
0	n	+Invoice/Billing Reference	
0	1	+Billing Reference/Invoice Document Reference/Document Reference	
1	1	Document Reference/Identifier	
0	1	Document Reference/UUID/Identifier	
0	1	Document Reference/Issue Date/Date	
0	1	Document Reference/Document Type Code/Code	
0	1	Document Reference/Document Type/Text	
0	1	+Document Reference/Attachment	
0	1	+Attachment/External Reference	
1	1	External Reference/URI/Identifier	





-	linality	Eler	nen	t name	Restriction
0	1			External Reference/Document Hash/Text	
0	1			External Reference/Expiry Date/Date	
0	1			External Reference/Expiry Time/Time	
0	1			Billing Reference/Credit Note Document Reference/Document eference	
1	1			Document Reference/Identifier	
0	1			Document Reference/UUID/Identifier	
0	1			Document Reference/Issue Date/Date	
0	1			Document Reference/Document Type Code/Code	
0	1			Document Reference/Document Type/Text	
0	1			+Document Reference/Attachment	
0	1			+Attachment/External Reference	
1	1			External Reference/URI/Identifier	
0	1			External Reference/Document Hash/Text	
0	1			External Reference/Expiry Date/Date	
0	1			External Reference/Expiry Time/Time	
0	1	+lnv	voic	e/Contract Document Reference/Document Reference	
1	1		Do	ocument Reference/Identifier	BIIRULE-T10-R036
0	1			ocument Reference/Document Type/Text	
0	n	+ln\		e/Additional Document Reference/Document Reference	
1	1		Do	ocument Reference/Identifier	BIIRULE-T10-R037
0	1			ocument Reference/Document Type/Text	
0	1			Document Reference/Attachment	
0	1			Attachment/Embedded Document/Binary Object	PCL-010-001
0	1			+Attachment/External Reference	
1	1	1		External Reference/URI/Identifier	
1	1	+lnv	voic	e/Accounting Supplier Party/Supplier Party	
1	1			Supplier Party/Party	
0	1			Party/Endpoint Identifier/Identifier	PCL-010-009
0	1			+Party/Party Identification	
1	1			Party Identification/Identifier	PCL-010-008
1	1	1		+Party/Party Name	
1	1			Party Name/Name	BIIRULE-T10-R026
1	1	1		+Party/Postal Address/Address	EUGEN-T10-R001
0	1			Address/Identifier	PCL-010-003
0	1	1		Address/Postbox/Text	
1	1			Address/Street Name/Name	
0	1	 		Address/Additional Street Name/Name	
0	1			Address/Building Number/Text	
0	1			Address/Department/Text	
<u>- </u>	1			Address/City Name/Name	
<u>. </u>	1	T		Address/Postal Zone/Text	
0	1	1		Address/Country Subentity/Text	
0	1			+Address/Country	
1	1			Country/Identification Code/Code	CL-010-004 BIIRULE-T10-R040
0	1			+Party/Party Tax Scheme	2
0	1			Party Tax Scheme/Company Identifier/Identifier	EUGEN-T10-R007 BIIRULE-T10-R003





0	ardinality Element name Restriction			I postation .		
		Elei	mer	nt nar		Restriction
1	1				+Party Tax Scheme/Tax Scheme	01.040.005
1	1				Tax Scheme/Identifier	CL-010-005
0	1			. +Pa	arty/Party Legal Entity	
0	1				Party Legal Entity/Registration Name/Name	
1	1				Party Legal Entity/Company Identifier/Identifier	BIIRULE-T10-R041
0	1				+Party Legal Entity/Registration Address/Address	
0	1				Address/City Name/Name	EUGEN-T10-R001
0	1				Address/Country Subentity/Text	
0	1				+Address/Country	
1	1				Country/Identification Code/Code	CL-010-004 BIIRULE-T10-R040
0	1			. +Pa	arty/Contact	
0	1				Contact/Telephone/Text	
0	1				Contact/Telefax/Text	
0	1				Contact/Electronic Mail/Text	
0	1			. +Pa	arty/Person	
0	1				Person/First Name/Name	
0	1				Person/Family Name/Name	
0	1				Person/Middle Name/Name	
0	1				Person/Job Title/Text	
1	1	+ln	voic	ce/Ac	counting Customer Party/Customer Party	
1	1				omer Party/Party	
0	1			1	ty/Endpoint Identifier/Identifier	PCL-010-009
0	1				arty/Party Identification	
1	1				Party Identification/Identifier	PCL-010-008
1	1			. +Pa	arty/Party Name	
1	1				Party Name/Name	BIIRULE-T10-R027
0	1				arty/Postal Address/Address	EUGEN-T10-R002
0	1				Address/Identifier	PCL-010-003
0	1				Address/Postbox/Text	
1	1				Address/Street Name/Name	
0	1	İ		İ	Address/Additional Street Name/Name	
0	1	İ			Address/Building Number/Text	
0	1				Address/Department/Text	
1	1				Address/City Name/Name	
1	1				Address/Postal Zone/Text	
0	1	İ			Address/Country Subentity/Text	
0	1				+Address/Country	
1	1				Country/Identification Code/Code	CL-010-004 BIIRULE-T10-R040
0	1			+P:	arty/Party Tax Scheme	BIICORE-T10-R391
0	1		ļ		Party Tax Scheme/Company Identifier/Identifier	BIIRULE-T10-R005
1	1		ļ		+Party Tax Scheme/Tax Scheme	2== ::3::33
1	1				Tax Scheme/Identifier	BIIRULE-T10-R005 CL-010-005
0	1		_	+P:	arty/Party Legal Entity	02 310 000
0	1		<u> </u>		Party Legal Entity/Registration Name/Name	
1	1		<u> </u>		Party Legal Entity/Company Identifier/Identifier	BIIRULE-T10-R041
0	1				+Party Legal Entity/Registration Address/Address	
0	1				Address/City Name/Name	
U	1 1	• • • •		• • • •	radiess/oity ivallie/ivallie	





	Cardinality Element name Restriction					
	inality	Elem	nen	t nan		Restriction
0	1				Address/Country Subentity/Text	
0	1				+Address/Country	
1	1				Country/Identification Code/Code	CL-010-004
0	1			+Pa	arty/Contact	
0	1				Contact/Telephone/Text	
0	1				Contact/Telefax/Text	
0	1				Contact/Electronic Mail/Text	
0	1			+Pa	urty/Person	
0	1				Person/First Name/Name	
0	1				Person/Family Name/Name	
0	1				Person/Middle Name/Name	
0	1				Person/Job Title/Text	
0	1	+Inv	oic	e/Pa	yee Party/Party	
0	1		+P	arty/	Party Identification	
1	1			Par	ty Identification/Identifier	PCL-010-008
0	1		+P	arty/	Party Name	
1	1			Par	ty Name/Name	BIICORE-T10-R388
0	1				Party Legal Entity	
1	1	l			ty Legal Entity/Company Identifier/Identifier	
0	1	+Inv	oic		livery	
0	1				y/Actual Delivery Date/Date	
0	1				ery/Delivery Location/Location	
0	1				ation/Identifier	PCL-010-004
0	1				cation/Address	EUGEN-T10-R005
0	1				Address/Street Name/Name	
0	1				Address/Additional Street Name/Name	
0	1				Address/Building Number/Text	
0	1				Address/Department/Text	
1	1				Address/City Name/Name	
1	1				Address/Postal Zone/Text	
0	1				Address/Country Subentity/Text	
0	1				+Address/Country	
1	1				Country/Identification Code/Code	CL-010-004 BIIRULE-T10-R040
0	N	+lnv	oic	e/Pa	yment Means	BIIRULE-T10-R007
1	1				nt Means/Payment Means Code/Code	CL-010-006
0	1				nt Means/Payment Due Date/Date	BIIRULE-T10-R006
0	1			•	nt Means/Payment Channel Code/Code	
0	1			•	nt Means/Payment Identifier/Identifier	
0	1				ent Means/Payee Financial Account/Financial Account	BIIRULE-T10-R008
1	1				ancial Account/Identifier	
0	1				nancial Account/Financial Institution Branch/Branch	
0	1				Branch/Identifier	
0	1				+Branch/Financial Institution	
1	1				Financial Institution/Identifier	EUGEN-T10-R004
						PCL-010-002
0	1	+INV			yment Terms	
0	1			-	nt Terms/Note/Text	
0	n	+Inv	OIC	e/All	owance Charge	





Card	inality	Element name		Restriction		
1	1		Allowance Charge/Charge Indicator/Indicator			
0	1		Allowance Charge/Allowance Charge Reason/Text	EUGEN-T10-R023		
1	1		Allowance Charge/Amount	EUGEN-T10-R022		
0	1		+ Allowance Charge/Tax Category	PEPPOL addition Org17		
1	1		Tax Category/Identifier	CL-010-007 BIIRULE-T10-R048 EUGEN-T10-R011 EUGEN-T10-R006		
0	1		Tax Category/Percent			
1	1		+Tax Category/Tax Scheme			
1	1		Tax Scheme/Identifier	CL-010-005 BIIRULE-T10-R049		
1	1	+ln	voice/Tax Total			
1	1		Tax Total/Tax Amount/Amount			
0	n		+Tax Total/Tax Subtotal	EUGEN-T10-R008		
1	1		Tax Subtotal/Taxable Amount/Amount	BIIRULE-T10-R028 BIIRULE-T10-R046		
1	1		Tax Subtotal/Tax Amount/Amount	BIIRULE-T10-R010 BIIRULE-T10-R047		
1	1		+Tax Subtotal/Tax Category			
1	1		Tax Category/Identifier	CL-010-007 BIIRULE-T10-R048 EUGEN-T10-R011		
0	1		Tax Category/Percent			
0	1		Tax Category/Tax Exemption Reason Code/Code	PCL-010-007		
0	1		Tax Category/Tax Exemption Reason/Text	EUGEN-T10-R009		
1	1		+Tax Category/Tax Scheme	BIIRULE-T10-R009		
1	1		Tax Scheme/Identifier	CL-010-005 BIIRULE-T10-R049		
1	1	+ln	voice/Legal Monetary Total/Monetary Total			
1	1		Monetary Total/Line Extension Amount/Amount	BIIRULE-T10-R011 BIIRULE-T10-R043		
1	1		Monetary Total/Tax Exclusive Amount/Amount	BIIRULE-T10-R012 BIIRULE-T10-R028 BIIRULE-T10-R042		
1	1		Monetary Total/Tax Inclusive Amount/Amount	BIIRULE-T10-R013 BIIRULE-T10-R039 BIIRULE-T10-R014		
0	1		Monetary Total/Allowance Total Amount/Amount	BIIRULE-T10-R015		
0	1		Monetary Total/Charge Total Amount/Amount	BIIRULE-T10-R016		
0	1		Monetary Total/Prepaid Amount/Amount			
0	1		Monetary Total/Payable Rounding Amount/Amount			
1	1		Monetary Total/Payable Amount/Amount BIIRULE-T10-R017 BIIRULE-T10-R038 EUGEN-T10-R019			
1	n	+ln	voice/Invoice Line	BIIRULE-T10-R033		

Table 3 Information Elements in a Core CorrectiveInvoice Header





8.1.2 BIS 4a - The CorrectiveInvoice line

The following table shows the content of the core CorrectiveInvoice line:

	inality	Element name	Restriction
1	1	Invoice Line/Identifier	BIIRULE-T10-R032
0	1	Invoice Line/Note/Text	
0	1	Invoice Line/Invoiced Quantity/Quantity	Org03 EUGEN-T10-R003
1	1	Invoice Line/Line Extension Amount/Amount	BIIRULE-T10-R018 BIIRULE-T10-R050
0	1	Invoice Line/Accounting Cost/Text	
0	N	+Invoice Line/Order Line Reference	
1	1	Order Line Reference/Line Identifier/Identifier	
0	N	+Invoice Line/Allowance Charge	
1	1	Allowance Charge/Charge Indicator/Indicator	
0	1	Allowance Charge/Allowance Charge Reason/Text	
1	1	Allowance Charge/Amount	
0	1	+Invoice Line/Tax Total	
1	1	Tax Total/Tax Amount/Amount	
1	1	+Invoice Line/Item	
0	1	Item/Description/Text	
1	1	Item/Name	BIIRULE-T10-R025 BIIRULE-T10-R019
0	1	+Item/Sellers Item Identification/Item Identification	
1	1	Item Identification/Identifier	
0	1	+Item/Standard Item Identification/Item Identification	BIIRULE-T10-R020
1	1	Item Identification/Identifier	PCL-010-005
0	N	+Item/Commodity Classification	BIIRULE-T10-R021
0	1	Commodity Classification/Item Classification Code/Code	PCL-010-006
0	1	+Item/Classified Tax Category/Tax Category	
1	1	Tax Category/Identifier	CL-010-007 BIIRULE-T10-R048 EUGEN-T10-R011
0	1	Tax Category/Percent	
1	1	+Tax Category/Tax Scheme	
1	1	Tax Scheme/Identifier	CL-010-005 BIIRULE-T10-R049
0	N	+Item/Additional Item Property/Item Property	
1	1	Item Property/Name	
1	1	Item Property/Value/Text	
1	1	+Invoice Line/Price	
1	1	Price/Price Amount/Amount	BIIRULE-T10-R022
0	1	Price/Base Quantity/Quantity	
0	1	+Price/Allowance Charge	
1	1	Allowance Charge/Charge Indicator/Indicator	
0	1	Allowance Charge/Allowance Charge Reason/Text	
0	1	Allowance Charge/Multiplier Factor/Numeric	
1	1	Allowance Charge/Amount	
0	1	Allowance Charge/Base Amount/Amount	

Table 4 Information Elements in a Core CorrectiveInvoice Transaction Line





8.1.3 Syntax mapping to UBL

The UBL schema for CorrectiveInvoice is mapped to the UBL invoice model and can be downloaded from link [UBL_Invoice]/

8.2 BIS 4a CorrectiveInvoice, Business Rules (BiiCoreTrdm015)

The PEPPOL ruleset is a set of rules that clarify the content by stating mandatory fields, content rules like codelists, calculation rules and dependency rules for individual fields. Issuers of orders that produce messages that do not contradict any of these rules can be certain that anyone claiming conformance to PEPPOL can receive and process these messages.

PEPPOL has stated the following abstract rule in order to facilitate interoperability in cross border trade as well as compliance to EU legal directives. The rules are grouped into four sections depending on their scope and origin. It is important for implementers to note that documents issued by PEPPOL participants claiming conformance, MUST conform to the business rules stated in this BIS.

All the following rules have accompanying error level that can be stated as:

- warning the rule points to an issue that would provide clarifying or information that increases consistency and aids interoperability. The rule should be applied to the message.
 - A sender of message should NOT send messages that might raise warnings.
 - Receivers of messages should not reject messages that raise warnings.
- fatal the rule point to a major issue of consistency or data correctness.
 - A sender of message should NOT send messages that will raise fatal errors.
 - Receivers of messages can be expected to reject messages that raise fatal errors.

As support for implementers PEPPOL has made available:

- A Schematron implementation of the rules
- PEPPOL document validation service.

See [PEPPOL_PostAward] for more information.

8.2.1 BII Core Rules (biicore)

These are BII rules that are concerned with the CORE CorrectiveInvoice data model and is mapped to the UBL invoice. This set of rules is syntax specific and reflects PEPPOL use of mapping to UBL 2.0. It restricts use of classes by changing their cardinality.

The mapping of rules to Schematron also identifies rules of checking for presence of additional content that is not part of the core specifications. These rules are not listed here since they are not part of the specifications.

Rule No.	Rule	Error level
BIICORE-T15-R001	An invoice SHOULD not contain empty elements.	warning
BIICORE-T15-R398	Element 'Partyldentification' may occur at maximum 1 times.	warning
BIICORE-T15-R399	Element 'PartyName' must occur exactly 1 times.	warning
BIICORE-T15-R400	Element 'PartyTaxScheme' may occur at maximum 1 times.	warning
BIICORE-T15-R401	Element 'Partyldentification' may occur at maximum 1 times.	warning
BIICORE-T15-R402	Element 'PartyName' must occur exactly 1 times.	warning
BIICORE-T15-R403	Element 'PostalAddress' must occur exactly 1 times.	warning
BIICORE-T15-R404	Element 'PartyTaxScheme' may occur at maximum 1 times.	warning
BIICORE-T15-R405	Element 'TaxTotal' may occur at maximum 1 times.	warning
BIICORE-T15-R406	Element 'Price' must occur exactly 1 times.	warning
BIICORE-T15-R407	Element 'Description' may occur at maximum 1 times.	warning





BIICORE-T15-R408	Element 'Name' must occur exactly 1 times.	warning
BIICORE-T15-R409	Element 'ClassifiedTaxCategory' may occur at maximum 1 times.	warning
BIICORE-T15-R410	Element 'AllowanceCharge' may occur at maximum 1 times.	warning
BIICORE-T15-R411	Element 'TaxExclusiveAmount' must occur exactly 1 times.	warning
BIICORE-T15-R412	Element 'TaxInclusiveAmount' must occur exactly 1 times.	warning
BIICORE-T15-R413	Element 'Partyldentification' may occur at maximum 1 times.	warning
BIICORE-T15-R414	Element 'PartyName' may occur at maximum 1 times	warning
BIICORE-T15-R415	Element 'ID' must occur exactly 1 times.	warning

8.2.2 BII Profile Rules (biiprofile)

These are BII rules that are concerned with profile level issues. They respond to the ProfileID in an invoice.

Rule No.	Rule	Error level
	An invoice transaction T15 must only be used in CEN BII Profiles 5, 6, 7, 8, 13 or 19.	fatal
	A corrective invoice transaction T10 in BIS 6 MUST have an order reference identifier.	fatal

8.2.3 BII and PEPPOL Semantic Rules (biirules and eugen)

These are the rules that BII and PEPPOL have identified that are concerned with the semantics of the data. They are the European common ordering rules identified. These are issues like rules on content, dependency and calculations. BII rules have the "BIIRULE" prefix while PEPPOL rules are prefixed with "EUGEN". For readability the rules are grouped together by scope.

General rules:

Rule No.	Rule	Error level
BIIRULE-T15-R001	A corrective invoice period end date MUST be later or equal to an invoice period start date	fatal
BIIRULE-T15-R023	A corrective invoice MUST have a reference to an invoice.	fatal
BIIRULE-T15-R024	A corrective invoice MUST have the date of issue.	fatal
BIIRULE-T15-R025	A corrective invoice MUST have an invoice number.	fatal
BIIRULE-T15-R030	A corrective invoice MUST have a syntax identifier.	fatal
BIIRULE-T15-R031	A corrective invoice MUST have a customization identifier.	fatal
BIIRULE-T15-R032	A corrective invoice MUST have a profile identifier.	fatal
BIIRULE-T15-R035	A corrective invoice MUST have a currency code for the document.	fatal
BIIRULE-T15-R036	Any reference to an order MUST specify the order identifier.	fatal
BIIRULE-T15-R037	Any reference to a contract MUST specify the contract identifier.	fatal
BIIRULE-T15-R038	For any document referred in an invoice, A corrective invoice MUST specify the document identifier.	fatal
BIIRULE-T15-R046	Any reference to a document MUST specify the document identifier.	fatal
EUGEN-T15-R020	If the invoice refers to a period, the period MUST have an start date.	fatal
EUGEN-T15-R021	If the invoice refers to a period, the period MUST have an end date.	fatal
EUGEN-T15-R024	Currency Identifier MUST be in stated in the currency stated on header level.	fatal

Parties:





Rule No.	Rule	Error level
BIIRULE-T15-R002	A supplier address in an invoice SHOULD contain at least the city name and a zip code or have an address identifier.	warning
BIIRULE-T15-R003	In cross border trade the VAT identifier for the supplier should be prefixed with country code.	warning
BIIRULE-T15-R004	A customer address in an invoice SHOULD contain at least city and zip code or have an address identifier.	warning
BIIRULE-T15-R005	In cross border trade the VAT identifier for the customer should be prefixed with country code.	warning
BIIRULE-T15-R027	A corrective invoice MUST contain the full name of the supplier.	fatal
BIIRULE-T15-R028	A corrective invoice MUST contain the full name of the customer.	fatal
BIIRULE-T15-R041	Country in an address MUST be specified using the country code.	fatal
BIIRULE-T15-R042	Company identifier MUST be specified when describing a company legal entity.	warning
EUGEN-T15-R001	A supplier postal address in an invoice SHOULD contain at least, Street name and number, city name, zip code and country code.	warning
EUGEN-T15-R002	A customer postal address in an invoice SHOULD contain at least, Street name and number, city name, zip code and country code.	warning
EUGEN-T15-R005	A Delivery address in an SHOULD contain at least, city, zip code and country code.	warning

Calculation rules:

Rule No.	Rule	Error level
BIIRULE-T15-R010	Each tax total MUST equal the sum of the subcategory amounts.	fatal
BIIRULE-T15-R011	Invoice total line extension amount MUST equal the sum of the line totals	fatal
BIIRULE-T15-R012	An invoice tax exclusive amount MUST equal the sum of lines plus allowances and charges on header level.	fatal
BIIRULE-T15-R013	An invoice tax inclusive amount MUST equal the tax exclusive amount plus all tax total amounts and the rounding amount.	fatal
BIIRULE-T15-R014	Tax inclusive amount in an invoice MUST NOT be negative	fatal
BIIRULE-T15-R015	Total allowance it MUST be equal to the sum of allowances at document level	fatal
BIIRULE-T15-R016	Total charges it MUST be equal to the sum of document level charges.	fatal
BIIRULE-T15-R017	Amount due is the tax inclusive amount minus what has been prepaid.	fatal
BIIRULE-T15-R018	Invoice line amount MUST be equal to the price amount multiplied by the quantity plus charges minus allowances at line level	fatal
BIIRULE-T15-R022	Prices of items MUST NOT be negative.	warning
BIIRULE-T15-R029	If the VAT total amount in an invoice exists then the sum of taxable amount in sub categories MUST equal the sum of invoice tax exclusive amount.	fatal
BIIRULE-T15-R039	A corrective invoice MUST specify the total payable amount.	fatal
BIIRULE-T15-R040	A corrective invoice MUST specify the total amount with taxes included.	fatal
BIIRULE-T15-R043	A corrective invoice MUST specify the total amount without taxes.	fatal
BIIRULE-T15-R044	A corrective invoice MUST specify the sum of the line amounts.	fatal
EUGEN-T15-R019	Total payable amount in an invoice MUST NOT be negative	fatal

Taxes:

Rule No.	Rule	Error level
BIIRULE-T15-R009	An invoice MUST have a tax total referring to a single tax scheme	fatal
BIIRULE-T15-R047	A corrective invoice MUST specify the taxable amount per tax subtotal.	fatal
BIIRULE-T15-R048	A corrective invoice MUST specify the tax amount per tax subtotal.	warning
BIIRULE-T15-R049	Every tax category MUST be defined through an identifier.	warning





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BIIRULE-T15-R050	Every tax scheme MUST be defined through an identifier.	warning
EUGEN-T15-R006	If the VAT total amount in an invoice exists then an Allowances Charges amount on document level MUST have Tax category for VAT.	fatal
EUGEN-T15-R007	If the VAT total amount in an invoice exists it MUST contain the suppliers VAT number.	fatal
EUGEN-T15-R008	For each tax subcategory the category ID and the applicable tax percentage MUST be provided.	fatal
EUGEN-T15-R009	If the category for VAT is exempt (E) then an exemption reason SHOULD be provided.	warning
EUGEN-T15-R011	If the VAT total amount in an invoice exists then each invoice line item must have a VAT category ID.	fatal
EUGEN-T15-R015	IF VAT = "AE" (reverse charge) THEN it MUST contain Supplier VAT id and Customer VAT	fatal
EUGEN-T15-R016	IF VAT = "AE" (reverse charge) THEN VAT MAY NOT contain other VAT categories.	fatal
EUGEN-T15-R017	IF VAT = "AE" (reverse charge) THEN The taxable amount MUST equal the invoice total without VAT amount.	fatal
EUGEN-T15-R018	IF VAT = "AE" (reverse charge) THEN VAT tax amount MUST be zero.	fatal

Products and services:

Rule No.	Rule	Error level
BIIRULE-T15-R019	Product names SHOULD NOT exceed 50 characters long	fatal
BIIRULE-T15-R020	If standard identifiers are provided within an item description, an Scheme Identifier SHOULD be provided (e.g. GTIN)	fatal
BIIRULE-T15-R021	Classification codes within an item description SHOULD use a standard scheme for codes (e.g. CPV or UNSPSC)	fatal
BIIRULE-T15-R026	Each corrective invoice line MUST contain the product/service name	fatal
BIIRULE-T15-R033	Corrective Invoice lines MUST have a line identifier.	fatal
BIIRULE-T15-R034	A corrective invoice MUST specify at least one line item.	fatal
BIIRULE-T15-R051	Corrective Invoice lines MUST have a line total amount.	fatal
BIIRULE-T15-R052	Corrective Invoice lines MUST contain the item price	fatal
EUGEN-T15-R003	Each invoice line SHOULD contain the quantity and unit of measure	warning

Payment:

Rule No.	Rule	Error level
BIIRULE-T15-R006	Payment means due date in an invoice SHOULD be later or equal than issue date.	fatal
BIIRULE-T15-R007	If payment means is funds transfer, invoice MUST have a financial account	fatal
BIIRULE-T15-R008	If bank account is IBAN the BIC code SHOULD also be provided.	fatal
BIIRULE-T15-R045	When specifying payment means, A corrective invoice MUST specify the payment coded.	warning
	If the payment means are international account transfer and the account id is IBAN then the financial institution should be identified by using the BIC id.	warning
EUGEN-T15-R010	If payee information is provided then the payee name MUST be specified.	fatal

Allowance and Charges:

Rule No.	Rule	Error level
EUGEN-T15-R012	An allowance percentage MUST NOT be negative.	fatal
EUGEN-T15-R013	In allowances, both or none of percentage and base amount SHOULD be provided	warning





EUGEN-T15-R022	An allowance or charge amount MUST NOT be negative.	fatal
EUGEN-T15-R023	AllowanceChargeReason text SHOULD be specified for all allowances and charges	warning

8.3 Identifiers, mapping of requirements to semantic model

PEPPOL has no intention of developing a new policy on identifying Parties. The strategy is to recognize a range of different identification schemes and provide a code list of those recognized schemes based on international standards. For further information, see PEPPOL "Policy for Using Identifiers" [PEPPOL_Transp].

Requirement Org21 Policy 8

Policy 8 is implemented as a set of code list rules. For the CorrectiveInvoice, see Ch 8.4 on code lists. PCL-015-008

PCL-015-009

Examples of usage in Partyldentification:

The following examples denotes that the Issuing Agency is DK:CVR in the PEPPOL set of Issuing Agency Codes. This means that the party has the Danish CVR identifier DK87654321.

Examples of usage in Partyldentification and Endpoint ID:

<cbc:EndpointId ID schemeID="DK:CVR">DK87654321/cbc:EndpointId>

Requirement Org22 Policy 11

The following example identifies CorrectiveInvoice within "PEPPOL BIS 5a" as extension to the BII BiiCoreTrdm015 data model:

urn:www.cenbii.eu:transaction:biicoretrdm015:ver1.0:#urn:www.peppol.eu:bis:peppol5a:ver1.0

Where:

- Transaction ID: urn:www.cenbii.eu:transaction:biicoretrdm015:ver1.0
- Extension ID: urn:www.peppol.eu:bis:peppol5a:ver1.0
- Please be aware of the different usage of letter "1" and number "1".

For implementers: Please note that CustomizationID element in the document instance MUST correspond to the Customization ID of the SMP Document Identifier.

Requirement Org23 Policy 12

Policy 12 is implemented as follows:

- CustomizationID element MUST follow Policy 11 (see, requirement Org22):
- schemeID MUST equal "PEPPOL"

Example of usage:

```
<cbc:CustomizationID schemeID="PEPPOL">
urn:www.cenbii.eu:transaction:biicoretrdm015:ver1.0:#urn:www.peppol.eu:bis:peppol5a:ver1.0
```





</cbc:CustomizationID>

Requirement Org24 Policy 16

Policy 16 mandates that process identifiers MUST match the BII profile ID.

As an example the following process identifier is used for —BII05 - Billing:

<cbc:ProfileID>urn:www.cenbii.eu:profile:bii05:ver1.0</cbc:ProfileID>

For implementers: Please note that process identifiers in the document instance MUST correspond to the SMP process identifier.

8.4 CorrectiveInvoice - Code Lists

A number of information elements values are constrained to be those in a list of codes known as Code Lists. The specific Code Lists used for this transaction must be common between business partners in order to achieve interoperability. The following section lists the code lists identified by CEN BII and PEPPOL to be used in the PEPPOL BIS.

More information about PEPPOL use of code lists can be found at [PEPPOL_PostAward].

8.4.1 BII Code list rules (biirules-CodeLists)

The following rules regarding code lists are stated in BII documentation.

Rule ID	Rule description	Severity
CL-015-001	DocumentCurrencyCode MUST be coded using ISO code list 4217	fatal
CL-015-002	currencyID MUST be coded using ISO code list 4217	fatal
CL-015-003	Country codes in an invoice MUST be coded using ISO code list 3166-1	fatal
CL-015-004	Invoice tax schemes MUST be coded using UN/ECE 5153 code list	warning
CL-015-005	Payment means in an invoice MUST be coded using CEFACT code list 4461	warning
CL-015-006	Invoice tax categories MUST be coded using UN/ECE 5305 code list	warning

8.4.2 PEPPOL Code list rules (eugen-CodeLists)

The following additional code list rules are applied for PEPPOL implementations in addition to the BII rules

Rule ID	Rule description	Severity
PCL-015-001	Mime code in attribute MUST be MIMEMediaType.	fatal
PCL-015-002	Financial Institution SHOULD be BIC code.	warning
PCL-015-003	Postal address identifiers SHOULD be GLN.	warning
PCL-015-004	Location identifiers SHOULD be GLN	warning
PCL-015-005	Standard item identifiers SHOULD be GTIN.	warning
PCL-015-006	Commodity classification SHOULD be one of UNSPSC, eClass or CPV.	warning
PCL-015-007	Tax exemption reasons MUST be coded using Use CWA 15577 tax exemption code list. Version 2006	fatal
PCL-015-008	Party Identifiers MUST use the PEPPOL PartyID list	fatal
PCL-015-009	Endpoint Identifiers MUST use the PEPPOL PartyID list.	fatal





9 Technical Interaction Interoperability – Process and Semantic Implementation

Based on CEN BII results, a syntax binding of this PEPPOL BIS to the UBL 2.0 syntax is available to implementers/All document instances conformant to this PEPPOL BIS must be:

- Capable of validation against the UBL 2.0 Schema, see [UBL]/
- Conform to all business rules provided in this BIS/

As support for implementers PEPPOL has made available:

- XSLT Stylesheet for presentation of content/
- Examples of PEPPOL orders.

See [PEPPOL_PostAward] for more information/

A valid XML instance conformant to this BIS is identified by the following XML fragment (CreditNote).

A valid XML instance conformant to this BIS is identified by the following XML fragment (CorrectiveInvoice).

Document implementation guidelines are available for number of transactions at [PEPPOL_PostAward].





10 Technical Interaction Interoperability (eSignature Validation)

PEPPOL enforces no legal requirements on digital signatures for end-to-end checking of:

- Integrity
- Authenticity
- Non repudiation

And as such PEPPOL Orders do not require the eSignatures/

However, if eOrders are digitally signed the recipient party (e.g/Supplier) may wish to consider to use the PEPPOL Digital Signature Validation service to confirm validity of the certificate used for the signature.

11 Technical Transport Interoperability

The method of delivering data over the PEPPOL transport infrastructure is defined by the BusDox specification that guarantees the authenticity of the origin and the integrity of their content by fulfilling the requirements of electronic data interchange (EDI), as defined in Article 2 of Commission Recommendation 1994/820/EC of 19 October 1994, see [DIR_2006/112/EC]/

PEPPOL requires all orders to be transported using the PEPPOL Transport Infrastructure/This uses a transport model based on the BusDox version 1.0 specification suite that can be implemented as a four corner model and ensures communication of business documents in a secure and reliable way.

The use of this PEPPOL BIS is dependent on the connection of both participants to the PEPPOL Transport Infrastructure/From the perspective of the services, the receiving participant (e.g/the Supplier) must register their support for PEPPOL BIS 3a in a PEPPOL recognized SMP.

More information on the PEPPOL Technical infrastructure can be found on [PEPPOL Transp]/

