



#### OpenPEPPOL AISBL



# Post Award Coordinating Community

ICT - Models



# PEPPOL Punch Out Login & Transmission Specification

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#### 1 Introduction

The PEPPOL Punch Out Login & Transmission Specification (PPOLTS) can by used to transfer message data between ERP systems in a synchronous way as an alternative to asynchronous message transfer via network such as the PEPPOL BusDox network. Message transport by use of PPOLTS may be relevant when retrieving data directly from a web site during business processes such as a punch out process. The PPOLTS is based on the transfer mechanisms of HTTP.

#### 1.1 OpenPeppol

This specification is a result of work within OpenPEPPOL and is published as part of the PEPPOL specifications.

The audience for this document is organizations wishing to be PEPPOL enabled for exchanging electronic messages, 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

For further information on PEPPOL/OpenPEPPOL please see [PEPPOL].





#### 2 References

[PEPPOL] http://www.peppol.eu/, specifically http://www.peppol.eu/ressource-

library/technical-specifications/post-award

[PEPPOL\_Transp] http://www.peppol.eu/ressource-library/technical-specifications/infrastructure-

resources

[UBL] http://docs.oasis-open.org/ubl/UBL-2.1.html

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

[BIS18] http://www.peppol.eu/ressource-library/technical-specifications/post-award





#### 3 Document history

#### 3.1 Revision history

Version	Date	Author	Organization	Description
1.0	March 2017	Georg Birgisson	Midran Limited	First version

#### 3.2 Contributors

The following individuals and their organizations have contributed to the development of this PEPPOL BIS document by participation in team meetings, discussion and by providing expert input and review.

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#### 4 Principles and prerequisites

#### 4.1 Prerequisites

Reading this document requires general knowledge about the way http file downloading works.

The Supplier operates a Web shop that allows registered customers to login, select items and to retrieve the information about those items in an XML structured format that conforms to the PEPPOL BIS18 for Punch Out [BIS18]

#### 4.2 Scope

Retrieval of Punch Out shopping cart message from a supplier's website.

#### 5 Process

#### 5.1 Goals and Objectives

The main business benefits to be gained by implementing this specification are:

ID	Description
G-001	Enable web shop users and web shop operators to exchange shopping cart
	transaction in a synchronous way.

#### 5.2 Parties and roles

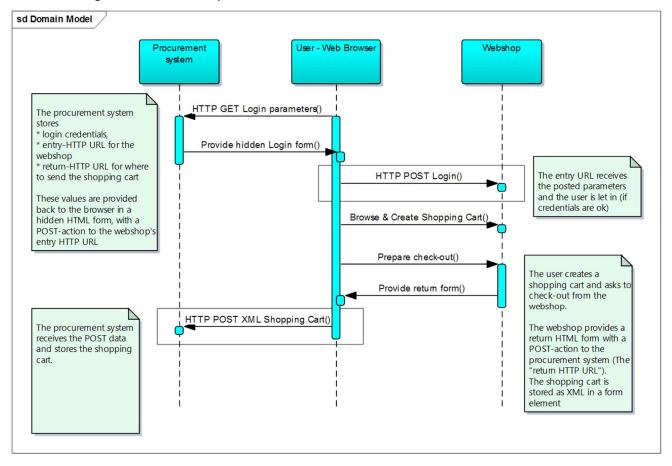
The table below gives the definitions of the parties and roles of the message transfer process.

Business partners	Description
Customer	The customer is the legal person or organization who is in demand of a product or service.
	Examples of customer roles: buyer, consignee/delivery part, debtor, contracting body, web shop user.
Supplier	The supplier is the legal person or organization who provides a product or service.
	Examples of supplier roles: seller, consignor, creditor, economic operator, web shop operator.
Role/actor	Description
User	The customer in the role of a user of the supplier's web shop.
Web shop operator	The Supplier in the role of the operator of a web shop.

The following diagram links the business processes to the roles performed by the Business Partners.







#### 5.3 Process description

The above diagram demonstrates the following process.

- 1. The user automatically logs into the suppliers webstore directly from his procurement systems by using the relevant login credentials. The login credentials are transmitted to the sellers webshop in the form of of an outbound request as defined in following chapter.
- 2. In the webstore the user selects the items he is interested in by placing them in his shopping cart. When he has finised his selection he selects to check out. This initiates an action in the sellers webshop where the item information is compiled into a structured XML format conformant to the PEPPOL BIS18 [BIS18].
- 3. The structured XML information is encoded as an base 64 object and pushed to the user through a post action.
- 4. In the users procurement system the transferred object is decoded into an XML document and processed automatically into the procurement system as defined in BI18 [BIS18].





#### 6 Request - outbound

PPOLTS message transfer is based on inbound- and outbound messages. An outbound message is sent from the eProcurement system to seller's web store. The outbound message is created in the buyer's procurement system

#### 6.1 Minimum Requirements

The outbound message must contain the following elements:

- URL
- USERNAME
- PASSWORD
- BUYER
- RETURN\_URL
- USER\_ID

Element	Description	Requirements
url	The url for the login at the provider's web site.	
username	An identifier for the receiver on the providers site.	issued by the provider
password	A password matching the username that validates the user.	issued by provider according to his password policies. Recommended minimum length is 10 characters.
buyer	The name of the receiver in his role as a buyer.	
post_url	The url to where the provider will post the inbound message on the receivers site.	
receiver_id	An identifier for the party that is to receiver's the inbound message.	

#### 6.2 Example

The following example is for the following details.

url: https://puchout.peppol.eu/request/callservice.jsp

username: samplebuyer password: strongpass buyer: john.doe receiver id: jd123

<input type="submit" value="Login" />

</form>

post\_url: https//purchase.johndoe.com/receive/receiveservice.jsp

```
<form method="post" enctype="application/x-www-form-urlencoded; charset=UTF-8" action=
https://puchout.peppol.eu/request/callspecification ="nameOnForm">
<input name="USERNAME" value=" samplebuyer " />
<input name="PASSWORD" value=" strongpass " />
<input name="RECEIVER_ID" value="jd123" />
<input name="BUYER" value=" john.doe " />
<input name="buyer_mpid" value="ef424336-0596-11df-ab05-593a56d89593" />
<input name="reqRole" value="FreeRequester" />
<input name="POST_URL" value=" https://purchase.johndoe.com/receive/receivespecification " />
```





#### 7 Provide -inbound

#### 7.1 Minimum requirements

The inbound message must contain the following elements:

- RETURNED OBJECT
- RETURNED OBJECT-SPEC ID
- RETURNED OBJECT-BASE64

Element	Description	Requirements
post_url	The url to where the provider will post the inbound message on the receivers site.	
SessionID		
returned_object-spec_id	The specification that govern the returned object and may be used to validate their content.	The relevant BIS customization identifier.
returned_object-mime	The mime code of the encoded object.	application/xml
returned_object-base64	The returned object encoded as base 64	

Following example is for a returned object that is a base 64 encoded XML message that follows the specification of a PEPPOL BIS for Punch Out.

#### 7.2 Example

```
<form name="posiform" action=" https//purchase.johndoe.com/receive/receiveservice.jsp " method="post"
enctype="application/x-www-form-urlencoded; charset=UTF-8">
<input type="text" name="RETURNED_OBJECT-SPEC_ID" value="
urn:www.cenbii.eu:transaction:biitrns077:ver2.0:extended:www.peppol.eu:bis:peppol18
a:ver1.0"/>
<input type="text" name="RETURNED_OBJECT-MIME" value="application/xml"/>
<input type="text" name="RETURNED_OBJECT-BASE64" value="A76E1D3BBF4D......"/>
<input type="text" name="SessionID" value=" jd123"/>
```

### 8 Appendix

#### 8.1 Example full inbound message

The following example returns the full example of the shopping cart message from PEPPOL BIS 18.

```
<form name="posiform" action=" https//purchase.johndoe.com/receive/receiveservice.jsp" method="post"
enctype="application/x-www-form-urlencoded; charset=UTF-8">
<input type="text" name="RETURNED_OBJECT-SPEC_ID" value="
urn:www.cenbii.eu:transaction:biitrns077:ver2.0:extended:www.peppol.eu:bis:peppol18
a:ver1.0"/>
<input type="text" name="RETURNED_OBJECT-MIME" value="application/xml"/>
<input type="text" name="RETURNED_OBJECT-BASE64"
value="PD94bWwgdmVyc2lvbj0iMS4wliBlbmNvZGluZz0iSVNPLTg4NTktMSI/Pg0KPENhdGFsb2d1ZSB4
bWxuczpjYWM9InVybjpvYXNpczpuYW1lczpzcGVjaWZpY2F0aW9uOnVibDpzY2hlbWE6eHNkOkNv
bW1vbkFnZ3JIZ2F0ZUNvbXBvbmVudHMtMilgeG1sbnM6eHNpPSJodHRwOi8vd3d3LnczLm9yZy8y
MDAxL1hNTFNjaGVtYS1pbnN0YW5jZSlgeG1sbnM6Y2JjPSJ1cm46b2FzaXM6bmFtZXM6c3BlY2lm</pre>
```





aWNhdGlvbjp1Ymw6c2NoZW1hOnhzZDpDb21tb25CYXNpY0NvbXBvbmVudHMtMilgeG1sbnM9InVy bjpvYXNpczpuYW1lczpzcGVjaWZpY2F0aW9uOnVibDpzY2hlbWE6eHNkOkNhdGFsb2d1ZS0yliB4 c2k6c2NoZW1hTG9jYXRpb249InVybjpvYXNpczpuYW1lczpzcGVjaWZpY2F0aW9uOnVibDpzY2hl bWE6eHNkOkNhdGFsb2d1ZS0yIEM6XFVzZXJzXE5vdGFuZGlcRG9jdW1lbnRzXFVwcGz9c2luZ2Fy XFN0YW5kYXJkc1xVQkxcVUJMLTluMVx4c2RcbWFpbmRvY1xVQkwtQ2F0YWxvZ3VlLTluMS54c2Qi Pg0KCTxjYmM6VUJMVmVyc2lvbklEPjIuMTwvY2JjOlVCTFZlcnNpb25JRD4NCgk8Y2JjOkN1c3Rv bWI6YXRpb25JRD51cm46d3d3LmNlbmJpaS5IdTp0cmFuc2FjdGlvbjpiaWl0cm5zMDc3OnZlcjlu MDpleHRlbmRlZDp3d3cucGVwcG9sLmV1OmJpczpwZXBwb2wxOGE6dmVyMS4wPC9jYmM6Q3VzdG9t aXphdGlvbkIEPg0KCTxjYmM6UHJvZmlsZUIEPnVybjp3d3cuY2VuYmlpLmV1OnByb2ZpbGU6Ymlp MTg6dmVyMS4wPC9jYmM6UHJvZmlsZUIEPg0KCTxjYmM6SUQ+MTM4NzwvY2JjOkIEPg0KCTxjYmM6 QWN0aW9uQ29kZT5mYWxzZTwvY2JjOkFjdGlvbkNvZGU+DQoJPGNiYzpJc3N1ZURhdGU+MjAxNi0w OC0wMTwvY2JjOklzc3VlRGF0ZT4NCgk8Y2JjOklzc3VlVGltZT4wOTowMDowMDwvY2JjOklzc3Vl VGltZT4NCgk8Y2FjOlZhbGlkaXR5UGVyaW9kPg0KCQk8Y2JjOkVuZERhdGU+MjAxNi0wOC0zMTwv Y2JjOkVuZERhdGU+DQoJCTxjYmM6RW5kVGltZT4xODowMDowMDwvY2JjOkVuZFRpbWU+DQoJPC9j YWM6VmFsaWRpdHlQZXJpb2Q+DQoJPGNhYzpSZWZlcmVuY2VkQ29udHJhY3Q+DQoJCTxjYmM6SUQ+ Q1JUMTM4NzwvY2JjOklEPg0KCTwvY2FjOlJlZmVyZW5jZWRDb250cmFjdD4NCgk8Y2FjOlByb3Zp ZGVyUGFydHk+DQoJCTxjYmM6RW5kcG9pbnRJRCBzY2hlbWVJRD0iTk86T1JHTlliPjk2NTY3ODk5 NjwvY2JjOkVuZHBvaW50SUQ+DQoJCTxjYWM6UGFydHlJZGVudGlmaWNhdGlvbj4NCgkJCTxjYmM6 SUQgc2NoZW1ISUQ9IkdMTiI+NTc5MDAwMDQzNTk1MTwvY2JjOkIEPg0KCQk8L2NhYzpQYXJ0eUlk ZW50aWZpY2F0aW9uPg0KCQk8Y2Fj0lBhcnR5TmFtZT4NCgkJCTxjYmM6TmFtZT5BQkMgU3VwcGxp ZXIgTHRkLjwvY2JjOk5hbWU+DQoJCTwvY2FjOlBhcnR5TmFtZT4NCgk8L2NhYzpQcm92aWRlclBh cnR5Pg0KCTxjYWM6UmVjZWI2ZXJQYXJ0eT4NCgkJPGNiYzpFbmRwb2ludElEIHNjaGVtZUIEPSJO TzpPUkdOUiI+OTg0NjYxMTg1PC9jYmM6RW5kcG9pbnRJRD4NCgkJPGNhYzpQYXJ0eUlkZW50aWZp Y2F0aW9uPg0KCQkJPGNiYzpJRCBzY2hlbWVJRD0iR0xOIj41NzkwMDAwNDM1OTQ0PC9jYmM6SUQ+ DQoJCTwvY2FjOlBhcnR5SWRlbnRpZmljYXRpb24+DQoJCTxjYWM6UGFydHlJZGVudGlmaWNhdGlv bj4NCgkJCTxjYmM6SUQgc2NoZW1ISUQ9IINIbGxlckFzc2InbmVkIj5TRUxMRVJBU1NJR05FREIE PC9jYmM6SUQ+DQoJCTwvY2FjOlBhcnR5SWRlbnRpZmljYXRpb24+DQoJCTxjYWM6UGFydHlOYW1I Pg0KCQkJPGNiYzpOYW1lPkRFRiBDdXN0b21lciBMdGQuPC9jYmM6TmFtZT4NCgkJPC9jYWM6UGFy dHIOYW1IPg0KCQk8Y2Fj0kNvbnRhY3Q+DQoJCQk8Y2Jj0kIEPmJ1eWVycyByZWYgbm88L2NiYzpJ RD4NCgkJPC9jYWM6Q29udGFjdD4NCgk8L2NhYzpSZWNlaXZlclBhcnR5Pg0KCTxjYWM6Q2F0YWxv Z3VITGluZT4NCgkJPGNiYzpJRD4xPC9jYmM6SUQ+DQoJCTxjYmM6Q29udHJhY3RTdWJkaXZpc2lv bj5DUIQxMzg3PC9jYmM6Q29udHJhY3RTdWJkaXZpc2lvbj4NCgkJPGNhYzpMaW5lVmFsaWRpdHlQ ZXJpb2Q+DQoJCQk8Y2JjOlN0YXJ0RGF0ZT4yMDE0LTEyLTMxPC9jYmM6U3RhcnREYXRlPg0KCQk8 L2NhYzpMaW5lVmFsaWRpdHlQZXJpb2Q+DQoJCTxjYWM6UmVxdWlyZWRJdGVtTG9jYXRpb25RdWFu dGl0eT4NCgkJCTxjYmM6TGVhZFRpbWVNZWFzdXJlIHVuaXRDb2RlPSJEQVkiPjEwPC9jYmM6TGVh ZFRpbWVNZWFzdXJIPg0KCQkJPGNhYzpQcmljZT4NCgkJCQk8Y2Jj0IByaWNlQW1vdW50IGN1cnJl bmN5SUQ9IkVVUiI+MTAwMC4wMDwvY2JjOlByaWNlQW1vdW50Pg0KCQkJCTxjYmM6QmFzZVF1YW50 aXR5IHVuaXRDb2RIPSJDNjIiIHVuaXRDb2RITGIzdEIEPSJVTkVDRVJIYzIwIj4xPC9jYmM6QmFz ZVF1YW50aXR5Pg0KCQkJPC9iYWM6UHJpY2U+DQoJCQk8Y2Fj0kRlbGl2ZXJ5VW5pdD4NCgkJCQk8 Y2JjOkJhdGNoUXVhbnRpdHkgdW5pdENvZGU9lkM2MilgdW5pdENvZGVMaXN0SUQ9llVORUNFUmVj MjAiPjE8L2NiYzpCYXRjaFF1YW50aXR5Pg0KCQkJPC9jYWM6RGVsaXZlcnlVbml0Pg0KCQk8L2Nh YzpSZXF1aXJIZEI0ZW1Mb2NhdGlvbIF1YW50aXR5Pg0KCQk8Y2FjOkl0ZW0+DQoJCQk8Y2JjOkRl c2NyaXB0aW9uPk9uZSBQZXJzb25hbCBDb21wdXRlciBwYWNrYWdlIHdpdGggYSBtb25pdG9yIGFu ZCBzZXR1cCBzZXJ2aWNIPC9jYmM6RGVzY3JpcHRpb24+DQoJCQk8Y2JjOk5hbWU+UEMgY29tcHV0 ZXIgcGFja2FnZTwvY2JjOk5hbWU+DQoJCQk8Y2FjOINlbGxlcnNJdGVtSWRlbnRpZmljYXRpb24+ DQoJCQkJPGNiYzpJRD5QQzAxPC9jYmM6SUQ+DQoJCQk8L2NhYzpTZWxsZXJzSXRlbUlkZW50aWZp Y2F0aW9uPg0KCQkJPGNhYzpNYW51ZmFjdHVyZXJzSXRlbUlkZW50aWZpY2F0aW9uPg0KCQkJCTxj YmM6SUQ+UEMwMTM0OTA4Nzk5MzwvY2JjOklEPg0KCQkJPC9jYWM6TWFudWZhY3R1cmVyc0l0ZW1J ZGVudGlmaWNhdGlvbi4NCgkJCTxjYWM6U3RhbmRhcmRJdGVtSWRlbnRpZmljYXRpb24+DQoJCQkJ PGNiYzpJRCBzY2hlbWVJRD0iR1RJTil+MTIzNDU2Nzg5MDEyMzwvY2JjOklEPg0KCQkJPC9jYWM6 U3RhbmRhcmRJdGVtSWRlbnRpZmljYXRpb24+DQoJCQk8Y2FjOkl0ZW1TcGVjaWZpY2F0aW9uRG9j dW1lbnRSZWZlcmVuY2U+DQoJCQkJPGNiYzpJRD5QQzAxaW1hZ2UuanBnPC9jYmM6SUQ+DQoJCQkJ PGNiYzpEb2N1bWVudFR5cGVDb2RlPm1haW5faW1hZ2U8L2NiYzpEb2N1bWVudFR5cGVDb2RlPg0K CQkJCTxjYmM6RG9jdW1lbnRUeXBlPlBpY3R1cmUgb2YgdGhlIGNvbXB1dGVyPC9jYmM6RG9jdW1l





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#### PEPPOL Business Interoperability Specifications Punch Out Login & Transmission Specification



TkNMNTMwNSBTVUJTRVQiPIM8L2NiYzpJRD4NCgkJCQk8Y2JjOlBlcmNlbnQ+MTg8L2NiYzpQZXJj ZW50Pg0KCQkJCTxjYWM6VGF4U2NoZW1lPg0KCQkJCQk8Y2JjOklEIHNjaGVtZUIEPSJVTkNMNTEw MyI+VkFUPC9jYmM6SUQ+DQoJCQkJPC9jYWM6VGF4U2NoZW1IPg0KCQkJPC9jYWM6Q2xhc3NpZmll ZFRheENhdGVnb3J5Pg0KCQkJPGNhYzpBZGRpdGlvbmFsSXRlbVByb3BlcnR5Pg0KCQkJCTxiYmM6 TmFtZT5QYXJ0T2Y8L2NiYzpOYW1lPg0KCQkJCTxjYmM6VmFsdWU+UEMwMTwvY2JjOlZhbHVlPg0K CQkJPC9jYWM6QWRkaXRpb25hbEl0ZW1Qcm9wZXJ0eT4NCgkJPC9jYWM6SXRlbT4NCgk8L2NhYzpD YXRhbG9ndWVMaW5lPg0KCTxjYWM6Q2F0YWxvZ3VlTGluZT4NCgkJPGNiYzpJRD4zPC9jYmM6SUQ+ DQoJCTxjYmM6Q29udHJhY3RTdWJkaXZpc2lvbj5DUlQxMzg3PC9jYmM6Q29udHJhY3RTdWJkaXZp c2lvbj4NCgkJPGNhYzpSZXF1aXJIZEI0ZW1Mb2NhdGlvblF1YW50aXR5Pg0KCQkJPGNhYzpQcmlj ZT4NCgkJCQk8Y2JjOlByaWNlQW1vdW50IGN1cnJlbmN5SUQ9lkVVUiI+MjAuMDA8L2NiYzpQcmlj ZUFtb3VudD4NCgkJCTwvY2FjOlByaWNlPg0KCQkJPGNhYzpEZWxpdmVyeVVuaXQ+DQoJCQkJPGNi YzpCYXRjaFF1YW50aXR5IHVuaXRDb2RlPSJIVVIiIHVuaXRDb2RlTGlzdElEPSJVTkVDRVJIYzIw Ij4yPC9jYmM6QmF0Y2hRdWFudGl0eT4NCgkJCTwvY2FjOkRlbGl2ZXJ5VW5pdD4NCgkJPC9jYWM6 UmVxdWlyZWRJdGVtTG9jYXRpb25RdWFudGl0eT4NCgkJPGNhYzpJdGVtPg0KCQkJPGNiYzpEZXNj cmlwdGlvbj5MaW51eCBpbnN0YWxsYXRpb24gc2VydmljZS48L2NiYzpEZXNjcmlwdGlvbj4NCgkJ CTxjYmM6TmFtZT5JbnN0YWxsYXRpb24gc2VydmljZTwvY2JjOk5hbWU+DQoJCQk8Y2FjOlNlbGxl cnNJdGVtSWRlbnRpZmljYXRpb24+DQoJCQkJPGNiYzpJRD5JTlNUMDE8L2NiYzpJRD4NCgkJCTwv Y2FjOlNlbGxlcnNJdGVtSWRlbnRpZmljYXRpb24+DQoJCQk8Y2FjOkNsYXNzaWZpZWRUYXhDYXRl Z29yeT4NCgkJCQk8Y2JjOklEIHNjaGVtZUIEPSJVTkNMNTMwNSBTVUJTRVQiPkFBPC9jYmM6SUQ+ DQoJCQkJPGNiYzpQZXJjZW50Pjg8L2NiYzpQZXJjZW50Pg0KCQkJCTxjYWM6VGF4U2NoZW1lPg0K CQkJCQk8Y2JjOklEIHNjaGVtZUIEPSJVTkNMNTEwMyI+VkFUPC9jYmM6SUQ+DQoJCQkJPC9jYWM6 VGF4U2NoZW1IPg0KCQkJPC9jYWM6Q2xhc3NpZmllZFRheENhdGVnb3J5Pg0KCQkJPGNhYzpBZGRp dGlvbmFsSXRlbVByb3BlcnR5Pg0KCQkJCTxjYmM6TmFtZT5QYXJ0T2Y8L2NiYzpOYW1lPg0KCQkJ CTxjYmM6VmFsdWU+UEMwMTwvY2JjOlZhbHVlPg0KCQkJPC9jYWM6QWRkaXRpb25hbEl0ZW1Qcm9w ZXJ0eT4NCgkJCTxjYWM6QWRkaXRpb25hbEl0ZW1Qcm9wZXJ0eT4NCgkJCQk8Y2JjOk5hbWU+U2Vy dmljZUluZGljYXRvcjwvY2JjOk5hbWU+DQoJCQkJPGNiYzpWYWx1ZT50cnVlPC9jYmM6VmFsdWU+ DQoJCQk8L2NhYzpBZGRpdGlvbmFsSXRlbVByb3BlcnR5Pg0KCQk8L2NhYzpJdGVtPg0KCTwvY2Fj OkNhdGFsb2d1ZUxpbmU+DQo8L0NhdGFsb2d1ZT4NCg=="/> <input type="text" name="SessionID" value=" jd123"/>

