The eProcurement Map

A map of activities having an impact on the development of European interoperable eProcurement solutions

June 2010
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1 Introduction

There are a number of projects and initiatives in eProcurement in Europe tackling different subjects, issues or aspects of modernizing public procurement. Often groups of experts or individuals behind these projects are not aware of similar projects done by colleagues in the same field working in other European countries.

Therefore the eProcurement Forum, the community of eProcurement experts hosted by the ePractice portal, has gathered and analysed the key activities that have an impact on the development of electronic public procurement in Europe.

These efforts resulted in the creation of a dynamic map of these initiatives, which is provided to all the members of the eProcurement Forum and to any other expert interested in it. The expected effect is to make all the eProcurement stakeholders aware about what is happening in the European scenario and provide a tool for easy identify “who is doing what”.

The ‘eProcurement Map’ serves as a dynamic picture of various projects, initiatives or communities, having different targets, audiences or approaches to eProcurement.

This document represent the third version of this map which reflects what happened in the eProcurement scenario since the second version has been published about 7 months ago, at the end of October 2009): some new projects have been launched, some other came to the end, new documents have been published and are available for being shared among all the eProcurement practitioners in Europe.

This third version also takes into account the comments and contributions provided by the eProcurement practitioners in Europe.

The document consists of three main sections:

- Section 2: Map of the activities, where all the activities have been described providing synthetic information on objectives, approach and contacts
- Section 3: Available studies, proposing a selection of the available results of these activities and of the reference documents produced by the European Commission
- Section 4: Relevant Legal Acts, proposing the most recent legal acts issued at European level.
2 Map of European eProcurement activities

This chapter summarises the key activities concerning electronic public procurement at European level. Sections from 2.1 to 2.4 report those activities that are still running. Section 2.5 reports those activities that appeared in the second version of the Map (issued in October 2009) but that have been closed before the preparation of the current version of the document.

The activities have been grouped into four categories: the projects directly funded and performed by the Commission services, the piloting activities, the standardisation activities and the initiatives for creating communities of experts in the eProcurement areas.

For each activity, the following pieces of information are provided (whenever available):

- Acronym and name
- Short description of its objectives
- Contact persons: for privacy reasons, only the ePractice profile (see http://www.epractice.eu/people) has been provided whenever existing
- Information of each subproject or working group (if existing): description, contact persons,
- Topics covered by each subproject
- Related activities that are cooperating with it

2.1 Projects and Initiatives supported by the European Commission

2.1.1 CROBIES

Objective/Mission: the objective of the study on Cross-Border Interoperability of eSignatures (CROBIES) is to propose solutions to remove barriers to cross-border interoperability of qualified electronic signatures and advanced electronic signatures based on qualified certificates.

CROBIES is based on and takes into account the relevant provisions of Directive 1999/93/EC and their national implementations as well as the standardisation work based on the Directive.

CROBIES concentrates in particular on the following issues: supervision and accreditation systems of certification service providers issuing qualified signature certificates, the establishment of a “Trusted List of supervised/accredited certification service providers”; profiles of qualified certificates and the interoperability of Secure Signature Creation Devices (SSCDs). CROBIES also proposes a model for providing guidelines and guidance for cross-border and interoperable implementation of electronic signatures.

Sponsors or responsible organisations: DG INFSO
Contact: G. Galler (http://www.epractice.eu/en/people/3894)
Dates (start, end): Q3 2008 – Q2 2010
Approach: study
Topics/phases: eSignature
Cooperation with: PEPPOL, STORK, ETSI

2.1.2 e-CERTIS

Objective/Mission: eCERTIS is a free, on-line information tool which provides details of the different certificates and attestations frequently requested in procurement procedures across the 27 Member States, two Candidate Countries (Turkey and Croatia) and the three EEA countries (Iceland, Liechtenstein and Norway). It represents a pragmatic response to the problems encountered by economic operators and contracting authorities when submitting and receiving evidence documents within a cross-border procurement process.

eCERTIS has been designed to help both economic operators and contracting authorities, first to understand what information is being requested or provided and secondly to identify mutually
acceptable equivalents. This can be done fairly quickly, using a range of search criteria, including keyword searches in their own language.

**Sponsors or responsible organisations:** DG MARKT

**Contact:** M. Tardiol (http://www.eprojects.eu/en/people/93603)

**Dates (start, end):** 2010–2011

**More information:** please contact us at markt-e-certis@europa.eu.int.

**Approach:** study, tool

**Topics/phases:** eTendering (eAttestation)

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**2.1.3 ESSI**

**Objective/Mission:** To set up a common Electronic Signature Services Infrastructure to be deployed at the EC, for the purpose of facilitating the introduction of electronic signatures in all of the Commission's circles of exchanges. ESSI considers separately the public key infrastructure (PKI) to issue, deliver and manage the certificates and the application platform that supports the actual creation, verification and extension of advanced electronic signatures. A solution based on interoperability standards is being deployed for this platform. A first real-life application integrating this solution and service was deployed within the context of the implementation of the Service Directive. Since January 2010, this application enables the Commission for the first time ever to guarantee the authenticity of information published on the Europa web site via the use of an electronic signature. Conformity to the European standards of this particularly visible signature was confirmed by ETSI.

**Sponsors or responsible organisations:** DIGIT

**Contacts:** P. Schneider (http://www.eprojects.eu/en/people/86664)

**Approach:** infrastructure/tools

**Topics/phases:** eSignature

**Cooperation with:** CROBIES, ETSI TC/ESI

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**2.1.4 Evaluation of eProcurement uptake**

**Objective/Mission:** To evaluate the uptake of eProcurement especially with regards to the progress achieved under the 2004 Action Plan

**Sponsors or responsible organisations:** DG-MARKT

**Contacts:** Mr. Niall Bohan

**Dates (start, end):** Q1 2008 - Q2 2010

**Approach:** evaluation

**Topics/phases:** eNoticing, eTendering, eAwarding, eOrdering, eInvoicing, eCatalogue, eAttestation, eSignature, national eProcurement plans

**More information:** [http://www.eprojects.eu/node/284989](http://www.eprojects.eu/node/284989)

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**2.1.5 Fiscalis 2013**

**Objective/Mission:** EU Commission initiative to:

- Enhance the fight against tax fraud;
- Continuously improve administrative procedures and practices to the benefit of administrations and business within the EU;
- Ensure the exchange of information between national tax administrations as well as with traders through projects such as trans-European tax IT systems.

**Sponsors or responsible organisations:** DG-TAXUD

**Contact:** D. Boubill

**Dates (start, end):** Q1 2008 – Q4 2013

**Topic/phases:** eInvoicing, ePayment
More information:

Sub-projects

Activity "audit of eInvoicing"
Description: Workshop Phase II produced as outcome a set of good practice Guidelines for both businesses and tax administrations. This CWA seeks to reduce some of the principal areas of uncertainty and resulting inefficiencies on the e-invoicing market with one single set of good practice Guidelines for both businesses and tax administrations. While every effort has been made to ensure consistency with legal requirements that apply to e-invoicing in the European Union, no guarantees of legal compliance or fitness for purpose are made by the drafters or CEN; any use of these documents is at the user’s own risk.

Contacts: Gertjan Vandenakker
Website: http://www.e-invoice-gateway.net/knowledgebase/eInvoiceBestPractice/

Approach: standardisation
Topics/Phases: eInvoicing

Cooperation with: CEN Workshop on eInvoicing Phase 2, ePrior - eInvoicing and eOrdering Pilot, eInvoicing Expert Group - ST 1- Regulatory Framework stream

2.2 Pilots

2.2.1 ePrior - eInvoicing and eOrdering Pilot

Objective/Mission: To produce business requirements for eInvoicing systems in a public procurement context and cross-border environment and set up an eInvoicing and eOrdering pilot to be used by DIGIT and some of its suppliers, including an eCatalogues module.

Description: Set up a prototype and run a number of pilots with suppliers to get real-life experience with eInvoicing and eOrdering; the RUP@EC methodology is applied; feasibility study and pilot on requirements for use of eCatalogues; a connector to the PEPPOL Infrastructure. An open-source version is made available to the MS on OSOR (see 3.1).

Sponsors or responsible organisations: DG-DIGIT, DG-MARKT, funded by IDABC

Contacts: A. Tosetti, head of unit DIGIT/B4, overall project owner
D. Thunus (http://www.epractice.eu/people/15626)
P. Breyne (http://www.epractice.eu/people/12256)
T. Chetcuti (http://www.epractice.eu/en/people/tanyachetcuti)

Dates (start, end): Q2 2007 – Q2 2010

Approach: Pilot

Topics/Phases: eInvoicing eOrdering eCatalogues

Cooperation with: PEPPOL WP5 - eInvoicing, WP4 - eOrdering, WP3 - eCatalogues, WP8 - Solutions architecture, design and validation, CEN Workshop on eInvoicing Phase 2, eInvoicing Expert Group, CEN BII - Workshop on ‘Business Interoperability Interfaces on public procurement in Europe’ and CEN BII 2

2.2.2 PEPPOL - Pan-European Public Procurement Online

Objective/Mission: Large scale pilot to set up integrated solutions for cross border eProcurement

Sponsors or responsible organisations: DG-INFSO (CIP ICT/PSP programme)

Contacts: K.V.Pedersen (http://www.eppractice.eu/people/KlausVilstrupPedersen); Norwegian Agency for Public Management and eGovernment

Dates (start, end): Q2 2008, Q4 2011

Website/case: http://www.peppol.eu/

Phases: eOrdering, eInvoicing, eCatalogue, eSignature

Sub-projects

WP1- eSignature

Description: Guidelines, specifications and pilot solutions to overcome the lack of interoperability between the different national schemes for electronically signing tender documents

Contacts: Dr. M. Hagen (http://www.eppractice.eu/people/5417)

Approach: pilot

Topics/phases: eSignature

Cooperation with: STORK

WP2- Virtual Company Dossier

Description: Interoperable solutions for economic operators in any European country to submit certificates and attestations electronically to any procurement agency

Contacts: M.Wimmer University of Koblenz (http://www.eppractice.eu/people/7317)

A. Mondorf (http://www.eppractice.eu/people/11712)

Approach: pilot

Topics/phases: eAttestation

WP3 – eCatalogue

Description: Interoperable solutions to manage eCatalogues used as part of a bid and for issuing orders in European Public eProcurement procedures

Contacts: G.De Stefano - CONSIP (http://www.eppractice.eu/people/12322)

Approach: pilot

Topics/phases: eCatalogue

Cooperation with: CEN BII 1- Workshop on ‘Business Interoperability Interfaces on public procurement in Europe’ CEN-BII 2

WP4 –eOrdering

Description: Benchmark of available solutions and implementation of pilot arrangements on the data and process level for the exchange of eOrdering documents

Contacts: S. Krammer (http://www.eppractice.eu/people/14289)

Approach: pilot

Topics/phases: eOrdering

Cooperation with: CEN BII 1- Workshop on ‘Business Interoperability Interfaces on public procurement in Europe’, eInvoicing and eOrdering Pilot, CEN – BII2

WP5- eInvoicing

Description: Benchmark existing eInvoicing solutions and implementation of pilot arrangements on the data and process level for the exchange of eInvoicing documents


Approach: pilot

Topics/phases: eInvoicing

Cooperation with: ePrior eInvoicing and eOrdering Pilot, CEN BII 1- 2, CEN, eInvoicing 2 and 3 Expert Group
### WP6 - Project Management

**Description:** Project Management

**Contacts:** A. Hoddevik ([http://www.epractice.eu/people/854](http://www.epractice.eu/people/854))

**Approach:** pilot

**Topics/Phases:** Management of the Project

### WP7 - Consensus and Awareness Building

**Description:** Dissemination and consensus building around the project’s achievements

**Contacts:** J. Werner ([http://www.epractice.eu/en/people/98217](http://www.epractice.eu/en/people/98217))

**Approach:** dissemination/cooperation set-up

**Cooperation with:** eProcurement Forum

### WP8 - Solutions Architecture, Design and Validation

**Description:** Design and validation of the common specifications and building blocks which together will define the technical interoperability layer required to provide an operational e-business infrastructure


**Approach:** Infrastructure/tools

**Topics/Phases:** eNoticing, eTendering, eAwarding, eOrdering, eInvoicing

### 2.2.3 STORK - (Secure idenTity acrOss euRope linKed)

**Description:** The role of the STORK platform is to identify a user who is in a session with a service provider, and to send his data to this service. Whilst the service provider may request various data items, the user always controls the data to be sent. The explicit consent of the owner of the data, the user, is always required before his data can be sent to the service provider.

**Objective/Mission:** The aim of the STORK project is to establish a European eID Interoperability Platform that will allow citizens and businesses to establish new e-relations across borders, just by presenting their national eID.

**Website/Case:** [http://www.eid-stork.eu](http://www.eid-stork.eu)

**Sponsors or responsible organisations:** DG INFSO

**Contacts:** ePractice European eID Observatory ([http://epractice.eu/community/eureid](http://epractice.eu/community/eureid))


**Dates (start, end):** Q2 2008, Q2 2011

**Approach:** pilot

**Topics/Phases:** eSignature, eID

**Cooperation with:** PEPPOL WP1


### 2.3 Standardisation

#### 2.3.1 CEN BII - Workshop on ‘Business Interoperability Interfaces on public procurement in Europe’ Phase 2 (WS/BII 2)

**Objective/Mission:** to provide a basic framework for technical interoperability in pan-European electronic transactions, expressed as a set of technical specifications that cross-refer to relevant activities, and in particular are compatible with UN/CEFACT - in order to ensure global interoperability. The workshop is focusing on implementation facilitations and co-ordinating pilots implementing the technical specifications output. The requirements and final specifications are input into UN/CEFACT.

The starting point for the Workshop was the CEN BII Phase 1 ([http://www.ds.dk/en-GB/Sectors/ICT/Bii/Sider/default.aspx](http://www.ds.dk/en-GB/Sectors/ICT/Bii/Sider/default.aspx)).
2.3.2 CEN eBES - Workshop on The e-business Board for European Standardization

**Objective/Mission:** To define the guidelines for the implementation of electronic business through the use of modelling and XML based on the work of ebXML and taking into account the work done in UN/CEFACT.

**Sponsors or responsible organisations:** CEN

**Contacts:**
- Jostein Fromyr (http://epractice.eu/en/people/12164)
- M. El-Khoury (http://epractice.eu/people/12948)

**Dates (start, end):** Q1 2010, Q1 2012

**More information:** http://www.cen.eu/cen/Sectors/Sectors/ISSS/Activity/Pages/Ws_BII.aspx#

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**EEG1/TBG1 Supply-chain and eProcurement**

**Description:** Cross-industry processes and transactions: eInvoicing, eOrdering, eCatalogues among others.

**Contacts:** M. El-Khoury (http://epractice.eu/people/12948)

**Website:**  

**Approach:** standardisation

**Topics/phases:** eOrdering, eInvoicing, eCatalogue

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**EEG2/TBG3 Transport**

**Description:** EEG2 (TBG3 Europe) deals with the transport area.

TBG3 has the primary mission to identify EDIFACT standard message requirements for the transfer of transport data and to develop and maintain United Nations Standard Messages (UNSM's) for transport and logistics purposes. TBG3 develops the transport Business Models, the transport Core Components and Business Information Entities, in accordance with the UML and UMM methodology, such as to develop standard XML documents for the transport and logistics sector. TBG3 also deals with the relevant Codes lists including UN Recommendations.

**Contacts:** D. Vankemmel

**Website:**  
http://www.cen.eu/cen/Sectors/Sectors/ISSS/Activity/Pages/eBESWG.aspx  
http://www.smdg.org/tbg3/

**Approach:** standardisation

**Topics/phases:** eOrdering, eInvoicing, eCatalogue

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**EEG5/TBG6 Architecture, Engineering and Construction**

**Description:** eTendering Business Process Modelling

**Approach:** standardisation

**Topics/phases:** eTendering

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**EEG13/TBG19 eGov (eNoticing)**

**Description:** To identify and formally define XML messages that can be used also at national levels, compliant with the Commission Regulation but also with UN/CEFACT and CEN

**Contacts:** D. Hardy (http://epractice.eu/people/3186)

**Website:**  

**Approach:** standardisation
Topics/phases: eNoticing

**EEG13/TOBG19 eGov (eArchiving)**

Description: to define processes and formats for the transfer of electronic records

Contacts: S. Colas (http://www.epactice.eu/people/12307)

Website: http://www.cen.eu/cenorm/businessdomains/businessdomains/isss/activity/e-gov.asp

Approach: standardisation

Topics/phases: eArchiving

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2.3.3 CEN - Workshop on eInvoicing Phase 3 (CEN WS/INV3)

**Objective/Mission:** The work in the first two phases of the CEN eInvoicing Workshop has demonstrated the need for a common stakeholder understanding of the means to implement electronic invoicing. The Expert Group on eInvoicing, set up by the European Commission, has been a practical demonstration of the need for a clear regulatory and policy framework for raising awareness and bringing political emphasis.


The major objective of the Work Shop is to provide support for a continuing technical platform to carry out the specific European work that stakeholders require, both in terms of the technical needs expressed in the CEN eInvoicing Workshop Phase 2 and the recommendations of the Expert Group by producing a set of defined CWAs. The overall target of Phase 3 will be “Integration of efforts in standardisation and developments”.

This CEN e-invoice Platform will:

- Be open to the participation of any interested party;
- Reach stakeholder consensus on standards-related issues;
- Provide the appropriate interface with international and other European standards activities.

**Sponsors or responsible organisations:** CEN

**Contacts:**
S. Engel-Flechsig (http://www.epactice.eu/en/people/90087)
A. Grangard (http://www.epactice.eu/en/people/13432)

**Dates (start, end):** Q1 2010, Q4 2011


**Cooperation with:** CEN Workshop on Business Interoperability Interfaces for public procurement in Europe (CEN WS/BII), PEPPOL.

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2.3.4 ETSI TC/ESI

**Objective/Mission:** TC ESI is responsible for Electronic Signatures and Infrastructures standardization within ETSI.

**Sponsors or responsible organisations:** ETSI

**Contacts:** S. Comphans – ETSI (http://www.epactice.eu/en/people/86050), ESIsupport@etsi.org

**Approach:** standardisation

**Topics/phases:** eSignature, Registered Electronic Email

**Cooperation with:** CEN - Workshop on eInvoicing Phase 2, PEPPOL


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2.3.5 TSL plugtest

**Objective/Mission:** On 16 October 2009 the European Commission adopted a Decision setting out measures facilitating the use of procedures by electronic means through the ‘points of single contact’
under the Services Directive. One of the measures adopted by the Decision consists in the obligation for Member States to establish and publish by 28.12.2009 their Trusted List of supervised/accredited certification service providers issuing qualified certificates to the public. The objective of this obligation is to enhance cross-border use of electronic signatures by increasing trust in electronic signatures originating from other Member States.

The Trusted Lists will above all benefit to the verification of advanced e-signatures supported by qualified certificates in the meaning of the e-signature directive (1999/93/EC) as far as they have to include at least certification service providers issuing qualified certificates.

In order to validate advanced e-signatures supported by qualified certificates, a receiving party would first need to check their trustworthiness. This means that the receiving party has to be able to verify whether the signature is an advanced electronic signature supported by a qualified certificate issued by a supervised certification service provider as required by Article 3.3 of the e-signatures directive. The receiving party may also need to verify whether the signature is supported by a secure signature creation device.

Although the information necessary to verify these signatures should in principle be retrievable from the signature itself and from the content of the qualified certificate supporting it, this process can be rather difficult due to the differences in the use of existing standards and practices.

The publicly available Trusted Lists will make it much easier for signature recipients to verify the e-signatures by complementing the data that can be retrieved from the e-signature and the qualified certificate and by providing also information on the supervised/ accredited status of Member States' certification service providers and their services.

In order to allow access to the trusted lists of all Member States in an easy manner, the European Commission has published a central list with links to national "trusted lists". This central list has been created by the Directorate General for Informatics under the IDABC-programme in close collaboration with Directates-General Internal Market and Services and Information Society and Media.

**Sponsors or responsible organisations:** ETSI (European Telecommunications Standards Institute)

**Contact:** Laurent Velez ([laurent.velez@etsi.org](mailto:laurent.velez@etsi.org))

**Dates (start, end):** Q1 2010 – Q2 2011

**Cooperation with:** CROBIES


**Approach:** services

**Topics/ phases:** eSignature

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### 2.3.6 NES/UBL - Northern European Subset

**Objective/Mission:** A cooperation among a group of European countries and organizations to facilitate the electronic coop. in the procurement chain, based on available international standards (mainly, UBL)

**Sponsors or responsible organisations:** NES consortium

**Contacts:** J. Frømyr ([http://epractice.eu/en/people/12164](http://epractice.eu/en/people/12164)) - EDISYS

**Approach:** standardisation

**Topics/phases:** eTendering, eOrdering, eInvocing, ePayment, eCatalogues

**More information:** [http://www.nesubl.eu/](http://www.nesubl.eu/)

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### 2.3.7 OASIS TC/UBL - The Universal Business Language

**Objective/Mission:** UBL, the Universal Business Language, is the product of an international effort to define a royalty-free library of standard electronic XML business documents such as purchase orders and invoices

**Sponsors or responsible organisations:** OASIS

**Contacts:** J. Bosak, T. McGrath ([http://www.epractice.eu/people/12041](http://www.epractice.eu/people/12041)), Z. Rendon, J. Bryce Clark, OASIS Staff Contact
2.3.8 UN/CEFACT - United Nations Centre for Trade Facilitation and Electronic Business

Objective/Mission: To encourage close collaboration between governments and private business to secure the interoperability for the exchange of information within the public and private sectors as well as between them.

Sponsors or responsible organisations: UNECE

Contacts: M. Doran, A. Grangard (http://www.epractice.eu/people/13432)

Approach: standardisation

More information: http://www.unesco.org/cefact/

Sub-projects

TBG1 - Supply Chain

Description: cross-industry eInvoicing and eOrdering schemas

Contacts: C. Janssen, GS1 Netherlands

Topics/phases: eOrdering, eInvoicing

Cooperation with: OASIS TC/UBL - The Universal Business Language, TBG19 – eGovernment, CEN eBES - Workshop on The eBusiness Board for European Standardization

TBG6 - Construction

Description: elaboration of eTendering schemas

Topics/phases: eTendering

Cooperation with: TBG19 – eGovernment, CEN eBES - Workshop on The e-business Board for European Standardization

TBG19 - eGovernment

Contacts: Antonio Reis (http://www.epractice.eu/en/people/13284)

Didier Hardy (http://www.epractice.eu/en/people/3186)

2.4 Communities and networks

2.4.1 eProcurement Forum

Objective/Mission: Community of practitioners for the exchange of eProcurement knowledge and experience

Sponsors or responsible organisations: IDABC

Contacts: J.Remuinan-Suarez (Jorge.REMUINAN-SUAREZ@ec.europa.eu)

Dates (start, end): Q1 2008

Approach: dissemination/cooperation set-up

Topics/phases: eNoticing, eTendering, eAwarding, eOrdering, eInvoicing

More information: http://epractice.eu/community/eprocurement

2.4.2 EULab - European Public Procurement Learning Lab

Objective/Mission: To compare the activities and to share useful knowledge among the European procurement agencies
Sponsors or responsible organisations: Consip - Italy
Contacts: G.L. Albano (http://www.epractice.eu/people/12471)
Dates (start, end): Q4 2003
Approach: dissemination/cooperation set-up
Topics/phases: eNoticing, eTendering, eAwarding, eOrdering, eInvoicing

2.5 Ended Projects

2.5.1 CEN eCAT - Multilingual eCataloguing and eClassification in eBusiness

Objective/Mission: The Workshop eCAT was re-launched in 2008 with a proposed duration of two years. The Workshop's main deliverable will be two CEN Workshop Agreements (CWAs):

1) ePPS project will deliver a CWA on «Guidelines for the design, implementation and operation of a product property server».
2) CC3P project will deliver a CWA containing an analysis of the main classification systems used in Europe (CPV, eCI@ss, GPC and UNSPCSC).

Sponsors or responsible organisations: CEN
Contacts: Dr C. Galinski Infoterm - International Information Centre for Terminology
Dates (start, end): Q1 2008, Q2 2010
Cooperation with: PEPPOL (mainly the CC3P), CEN BII, CEB eBIF
Sub-projects

**ePPS - Electronic Product Property Server**

Description: deals with guidelines for the design, implementation and operation of a product property server.

Approach: standardisation


Topics/phases: eCatalogue

**CC3P - Classification and Catalogue Systems for Public and Private Procurement**

Description: CC3P analyses the classification systems used in Europe for public procurement (CPV – Common Procurement Vocabulary) and some used in the private sector (UNSPSC, GPC and eCI@ss). CC3P proposed harmonization, mapping methodologies, recommendation on their use in electronic catalogues and areas of improvement in the CPV.

Approach: standardisation


Topics/phases: eCatalogue

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2.5.2 CEN eBIF - European e-Business Interoperability Forum

Objective/Mission: Produce strategic recommendations on standardization activities required to achieve interoperability solutions for eBusiness

Sponsors or responsible organisations: CEN
Contacts: P. Potgieser (http://www.epractice.eu/people/12301)
Dates (start, end): Q1 2008 – Q4 2009
Approach: standardisation

Topics/phases: eTendering eAwarding eOrdering eInvoicing eCatalogue
Cooperation with: elInvoicing Expert Group - ST2 - Business Requirements stream
More information:

2.5.3   European Federated Validation Service

Objective/Mission: Evaluation of a federated validation service acting as an intermediate trust infrastructure between the PKIs of Europe's national public administrations
Sponsors or responsible organisations: IDABC
Contacts: J. Stienen (http://www.epractice.eu/people/7828)
Dates (start, end): Q3 2008 - Q3 2009
Approach: Infrastructure/tools
Topics/phases: eSignature
Cooperation with: ESSI
http://www.epractice.eu/cases/bgca

2.5.4 CEN BII - Workshop on ‘Business Interoperability Interfaces on public procurement in Europe’ Phase 1

Objective/Mission: To provide a basic framework for technical interoperability in pan-European electronic transactions, expressed as a set of technical specifications
Sponsors or responsible organisations: CEN
Contacts: P. Borresen (http://www.epractice.eu/people/11729)
P. Sonntagbauer (http://www.epractice.eu/people/Sonntagbauer)
Sub-projects

WG1 - Message content and business processes
Description: To review the NES specifications and the CODICE documents/components to produce a “Common European Procurement Subset”
Contacts: J. Frømyr (http://www.epractice.eu/people/12164)
Approach: standardisation
Topics/phases: eNoticing, eTendering, eAwarding, eOrdering, eInvoicing

WG2 - UBL-UN/CEFACT convergence
Description: To ensure that the requirements of the workshop are met by the unified business documents from UN/CEFACT
Contacts: M. Forsberg - ECRU consulting
Approach: standardisation
Topics/phases: eNoticing, eTendering, eAwarding, eOrdering, eInvoicing

WG3 - Provision of a toolbox
Description: To identify collection of tools for adopting the tech specification and ensure interoperability
Contacts: J. L. Cueva Calavia (http://www.epractice.eu/people/joseluiscueva)
Approach: infrastructure/tools
Topics/phases: eNoticing, eTendering, eAwarding, eOrdering, eInvoicing
Cooperation with: OASIS TC/UBL - The Universal Business Language

WG4- Pilot support
Description: To coordinate and support pilot projects on electronic procurement
Contacts: M. Christensen (http://www.epractice.eu/en/people/12518)
Approach: dissemination/cooperation set-up
2.5.5 CEN - Workshop on eInvoicing Phase 2

Objective/Mission: To stimulate further standardization work in the domain of electronic invoices in Europe

Sponsors or responsible organisations: CEN

Contacts:
S. Engel-Flechsig (http://www.epractice.eu/en/people/90087)
A. Grangard (http://www.epractice.eu/en/people/13432)

Dates (start, end): Q1 2007, 2009

Cooperation with: ETSI TC/ESI, CEN eBES - Workshop on The e-business Board for European Standardization - TBG1 Supply-chain and eProcurement, CEN ePPE - Implementation of electronic public procurement in Europe


Sub-projects

Group 1: adoption of eInvoicing
Description: enhanced adoption of electronic invoicing in business processes in Europe
Contacts: G. Lindsberger
Approach: standardisation
Topics/phases: eInvoicing

Group 2: compliance with EU and National legislation
Contacts: J. Kuipers (http://www.epractice.eu/people/15759)
Approach: legislation
Topics/phases: eInvoicing

Group 3: Authentication and Integrity
Description: the cost-effective authentication and integrity of electronic invoices regardless of formats and technologies
Contacts: J. Borendal
Topics/phases: eInvoicing

Group 4: technologies and business processes
Description: the effective implementation of compliant electronic invoice systems in using emerging technologies and business processes
Approach: Infrastructure/tools
Topics/phases: eInvoicing

Group 5: Network infrastructure
Description: the emerging network infrastructure of invoice operators throughout Europe.
Contacts: J. Håkämies
Approach: Infrastructure/tools
Topics/phases: eInvoicing

2.5.6 eInvoicing Expert Group

Objective/Mission: Commission Expert Group on eInvoicing with a mandate to propose the EEI Framework.

achieving mass adoption of e-Invoicing, in particular, the widespread use of e-Invoicing by SMEs. These requirements are validated against current market reality, resulting in a number of identified gaps or areas for improvement identified in the report. A set of recommendations addressing these gaps constitutes the proposed European e-Invoicing Framework, the key deliverable of the Expert Group. The report also makes recommendations with clearly defined tasks and owners as to how this Framework could be implemented. The report has been open for consultation until 26 February 2010. Responses have been collected and published.

**Sponsors or responsible organisations:** DG-MARKT, DG-ENTR

**Contacts:** B.Harald ([http://www.epractice.eu/people/14751](http://www.epractice.eu/people/14751))


**Dates (start, end):** Q1 2008 – Q1 2010

3 Reference studies

This section contains a selection of reports produced by the initiatives listed above plus key reference documents produced by the European Commission in the last period.

For each study, the following information is provided:

- Document name
- Author or main responsible
- Summary of the content
- Link for downloading

A complete list of documents relevant for the eProcurement and related topics is available at [http://epractice.eu/eprocurement](http://epractice.eu/eprocurement).

In addition, IDABC edits a CD ROM which includes these reference studies, the eProcurement Demonstrators and other selected content. A free copy and more up-to-date information can be requested at [eprocurement@epractice.eu](mailto:eprocurement@epractice.eu).

An exhaustive list of documents with legal relevance is available at the DG Internal Market and Services website: [http://ec.europa.eu/internal_market/publicprocurement/e-procurement_en.htm](http://ec.europa.eu/internal_market/publicprocurement/e-procurement_en.htm).

Please note that the CEN results (CWAs) cannot be freely uploaded on ePractice: thus please refer to the website of each single workshop to access the produced CWAs.

3.1 Open e-Prior

**Date:** May 2010  
**Produced by:** ePrior-eInvoicing and eOrdering Pilot

**Description:** Open e-PRIOR is the open-source version of the e-PRIOR platform, developed and deployed by the Commission to allow the exchange of structured e-Procurement documents between the Commission and its suppliers. Open e-PRIOR is being developed under the IDABC programme and was initiated by Directorate-General for Internal Market (DG-MARKT) and Directorate-General for Informatics (DIGIT) of the European Commission. Open e-PRIOR provides an opportunity for reusability of an open-source solution that has already been implemented at the Commission and which provides a secure platform for document exchange. This is a great opportunity for sharing practical experiences and lessons learnt with the aim of accelerating uptake of e-Procurement across Member States.


3.2 Summary of responses to the Public Consultation on the Final Report of the Expert Group on e-Invoicing

**Date:** May 2010  
**Produced by:** European Commission, Directorate-General for Enterprise and Industry and Directorate-General for Internal Market and Services

**Description:** The Expert Group on e-Invoicing presented in its final report a set of recommendations for an European Electronic Invoicing Framework, supporting the uptake of cross-border interoperable e-Invoicing solutions, with a particular focus for uptake among SMEs.

The public consultation on the final report of the Expert Group on e-Invoicing ran from 30 November 2009 to 26 February 2010. It sought to strengthen and deepen the European Commission services' understanding of the way forward to promote uptake of electronic invoicing within the EU. The objective of this consultation was to collect stakeholders’ reactions on the recommendations proposed by the Expert Group on e-Invoicing in the areas of business requirements, legal framework, interoperability and standards, as well as the proposed approach for implementation and communication. All citizens and organisations were welcome to contribute. Contributions were particularly sought from SMEs, large enterprises, service providers, standardisation bodies and public authorities.
The present document is a summary of the 87 responses received on the occasion of this public consultation.


### 3.3 Study on the standardisation aspects of eSignature (CROBIES)

**Date:** March 2010  
**Produced by:** SEALED, time.lex and Siemens  
**Description:** The CROBIES study looks at eSignature interoperability in general, but specifically in the context of cross-border use. While considering a consistent global and long term approach in proposed improvements at the legal, technical and trust levels, CROBIES is also focusing on quick wins that could substantially improve the interoperability of electronic signatures.  

### 3.4 Final report of the Expert Group on eInvoicing

**Date:** November 2009  
**Produced by:** eInvoicing Expert Group  
**Description:** The Expert Group on e-Invoicing presented in its final report a set of recommendations for an European Electronic Invoicing Framework, supporting the uptake of cross-border interoperable e-Invoicing solutions, with a particular focus for uptake among SMEs.  

### 3.5 Multipart standard for Advanced Electronic Signatures for Portable Document Format (PDF) documents

**Date:** September 2009  
**Produced by:** ETSI TC/ESI  
**Description:** The standard defines a series of profiles for PAdES - Advanced Electronic Signatures for Portable Document Format (PDF) documents.  

### 3.6 Standard Basic eOrdering Format and Data Structure

**Date:** July 2009  
**Produced by:** PEPPOL  
**Subproject:** WP4  
**Other contributors:** work done in close connection with CEN BII.  
**Description:** The report analyses the main initiatives and standardization approaches related to eOrdering that have been launched in the last years.  

### 3.7 Functional, Technical, legal and organisational specifications for the development of Building Blocks Software enabling cross-border use of eCatalogues

**Date:** July 2009  
**Produced by:** PEPPOL  
**Subproject:** WP3  
**Description:** The deliverable documents the first activities of PEPPOL-WP 3 concerning the analysis of existing studies and initiatives, as well as legal frameworks at European and national levels which may have any relevance for eCatalogues. Therefore, the first activities of WP 3 comprised the analysis, synthesis and assessment of existing reports and documents.  

### 3.8 PEPPOL Infrastructure Open for Early Adopters

**Date:** May 2009  
**Produced by:** PEPPOL
Subproject: WP8  
**Description:** Version 0.8 of the PEPPOL infrastructure (Pan European Public Procurement) has been released on 1 May 2009. The release includes a simple demonstrator business application in addition to open source software libraries and other components.  

### 3.9 Functional and non-functional requirements specification for the VCD  
**Date:** May 2009  
**Produced by:** PEPPOL  
**Subproject:** WP2  
**Description:** The deliverable documents the first activities of PEPPOL-WP 2 concerning the analysis, synthesis and assessment of existing company dossier structures of individual Member States and the achievements of previously run studies from the DG-MARKT or other relevant EU bodies, and initiatives like the EU-co-funded BRITE project.  

### 3.10 Requirements for Use of Signatures in Public Procurement Processes  
**Date:** April 2009  
**Produced by:** PEPPOL  
**Description:** It is the first version of functional specifications for cross-border interoperability of eSignature in Europe. The specifications are specifically targeted at cross-border public procurement, the topic of Pan-European Public Procurement On-Line (PEPPOL).  

### 3.11 NES Schematron Validation Tool  
**Date:** March 2009  
**Produced by:** NES Consortium  
**Description:** A new version of the NES Schematron validation tool, to facilitate the electronic coop. in the procurement chain, based on available international standards (mainly, UBL)  

### 3.12 Analysis of Business Requirements for eInvoicing  
**Date:** March 2009  
**Produced by:** ePrior-eInvoicing and eOrdering Pilot  
**Description:** The report is one of the deliverables of the IDABC eInvoicing & eOrdering pilot project; it contains the results of the business requirements gathering process for eInvoicing in a public procurement context.  

### 3.13 Commission survey on uptake of eProcurement  
**Date:** October 2008. The survey closed on 12th January 2009.  
**Produced by:** DG-MARKT  
**Description:** Presentation of the survey launched by the Commission in 2008 to assess up-take and experience of practitioners  
**Download:** [http://www.epractice.eu/node/284989](http://www.epractice.eu/node/284989)

### 3.14 eInvoicing Best practice  
**Date:** July 2008  
**Produced by:** CEN - Workshop on eInvoicing Phase 2  
**Description:** Guidelines (Excel file) and Commentary - Draft version  
**Remarks:** With cooperation of Fiscalis  
**Download:** [http://www.epractice.eu/node/281857](http://www.epractice.eu/node/281857)
### 3.15 1st status report of the Expert Group on eInvoicing
**Date:** January 2008  
**Produced by:** eInvoicing Expert Group  
**Description:** Status report from the Expert Group on eInvoicing  
**Download:** [http://www.epractice.eu/node/281818](http://www.epractice.eu/node/281818)

### 3.16 Electronic Catalogues in Electronic Public Procurement- Final Report
**Date:** November 2007  
**Produced by:** DG-MARKT  
**Description:** The study consists of 3 volumes:  
- Volume I – eCatalogues: Report on the state of play;  
- Volume II - eCatalogues: Report on standardisation activities;  
**Remarks:** study funded by IDABC  
**Download:** [http://www.epractice.eu/node/281801](http://www.epractice.eu/node/281801)

### 3.17 Verification of compliance with the Public Procurement Directives
**Date:** October 2007  
**Produced by:** DG-MARKT  
**Description:** Report of a study for the identification, analysis and comparison of optimum mechanisms for verifying the compliance of tools and systems with the requirements of the public procurement Directives  
**Download:** [http://www.epractice.eu/node/281800](http://www.epractice.eu/node/281800)

### 3.18 Electronic transmission of public procurement notices for publication
**Date:** September 2007  
**Produced by:** DG-MARKT  
**Description:** A study to determine different scenarios for introducing a system of mandatory eNotification in a coherent regulatory and technical environment.  
**Download:** [http://www.epractice.eu/node/281802](http://www.epractice.eu/node/281802)

### 3.19 IDABC XML Schemas for Public Procurement
**Date:** January 2005  
**Produced by:** IDABC  
**Description:** The eProcurement XML schemas initiative aimed at proposing a set of generic XML schemas to support the automation of data exchanges in the different phases of electronic public procurement.  
**Download:** [http://www.epractice.eu/node/281836](http://www.epractice.eu/node/281836)

### 3.20 Functional Requirements for eProcurement
**Date:** January 2005  
**Produced by:** DG-MARKT  
**Description:** Report on Functional Requirements for conducting eProcurement under the EU framework  
**Remarks:** study funded by IDABC  
**Download:** [http://www.epractice.eu/node/281505](http://www.epractice.eu/node/281505)
4 Legal Acts

4.1 eSignature Action Plan
Date: November 2008
Produced by: DG-MARKT
Description: Action Plan on eSignature and eIdentification to facilitate the provision of crossborder public services in the Single Market
Download: http://www.epractice.eu/node/281876

4.2 Preliminary Study on ECertificates and eAttestations - Final Report and National Country Profiles
Date: September 2008
Produced by: DG-MARKT
Description: The goal of the study is to identify if and how electronic certificates and attestations are currently issued, accepted and validated in public procurement procedures across the EU and EEA. The report consists of two volumes: Volume 1-Country reports Volume 2-Final Report
Remarks: study funded by IDABC
Download: http://www.epractice.eu/node/281843

4.3 New Common Procurement Vocabulary
Date: September 2008
Produced by: DG-MARKT
Description: New version of Common Procurement Vocabulary (CPV) used to describe the subject of procurement contracts.
Download: http://www.epractice.eu/node/281871

4.4 eNoticing forms
Date: October 2005
Produced by: DG-MARKT
Description: Standard forms for the publication of procurement notices
Download: http://www.epractice.eu/node/281633

4.5 eProcurement Action Plan
Date: December 2004
Produced by: DG-MARKT
Description: Action plan for the implementation of the legal framework for electronic public procurement
Remarks:
Download: http://www.epractice.eu/node/281022
## Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGCA</td>
<td>Bridge/Gateway Certification Authority</td>
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<tr>
<td>BII</td>
<td>Business Interoperability Interfaces</td>
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<tr>
<td>CA</td>
<td>Contracting Authority</td>
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<tr>
<td>CEN</td>
<td>European Committee for Standardization</td>
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<tr>
<td>CPV</td>
<td>Common Procurement Vocabulary</td>
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<tr>
<td>CROBIES</td>
<td>Cross-Border Interoperability of eSignatures</td>
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<td>DG-DIGIT</td>
<td>Directorate General Information Technology</td>
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<td>DG-ENTR</td>
<td>Directorate General Enterprise</td>
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<td>DG-INFSO</td>
<td>Directorate General Information and Society</td>
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<td>DG-MARKT</td>
<td>Directorate General for Internal Market</td>
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<td>DG-TAXUD</td>
<td>Directorate General for Taxation and Customs</td>
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<td>eBES</td>
<td>CEN Workshop on The e-business Board for European Standardization</td>
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<td>eBIF</td>
<td>European e-Business Interoperability Forum</td>
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<td>European Economic Area</td>
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<td>European Electronic Invoicing</td>
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<td>ePPE</td>
<td>Electronic public procurement in Europe</td>
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<td>ePRIOR</td>
<td>IDABC eInvoicing and eOrdering project for public procurement</td>
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<td>EULab</td>
<td>European Public Procurement Learning Lab</td>
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<td>ICT/PSP</td>
<td>Information Communication Technologies Policy support Programme</td>
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<td>IDABC</td>
<td>Interoperable Delivery of European eGovernment Services to public Administrations, Business and Citizens</td>
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<tr>
<td>ISSS</td>
<td>Information Society Standardization System</td>
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<td>NES</td>
<td>Nothern European Subset</td>
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<td>OASIS</td>
<td>Organization for the Advancement of Structured Information Standards</td>
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<td>PKI</td>
<td>Public Key Infrastructure</td>
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<td>TC/UBL</td>
<td>Universal Business Language (UBL) Technical Commitee</td>
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<td>TSL</td>
<td>Trusted Lists</td>
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<td>UBL</td>
<td>The Universal Business Language</td>
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<td>UN/CEFACT</td>
<td>United Nations Centre for Trade Facilitation and Electronic Business</td>
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<td>WP</td>
<td>Work programme</td>
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</table>
## Annex I – Table of activities related to eProcurement

### Map of Activities related to eProcurement

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Name</th>
<th>Website/case</th>
<th>sponsor or responsible</th>
<th>Objective / Mission</th>
<th>Project Contact</th>
<th>Sub-project</th>
<th>Approach</th>
<th>topics/phases</th>
<th>Short description</th>
<th>Sub-project contact/ website</th>
<th>existing coop. with</th>
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<tbody>
<tr>
<td><strong>e-CERTIS</strong></td>
<td><strong>e-CERTIS</strong></td>
<td></td>
<td>DG MARKT</td>
<td>In consultation with the e-procurement Working Group (ePWG) the Commission is working to set up an information system - eCertis - designed to provide procurement actors with a detailed description of evidence that national contracting authorities frequently require in their domestic procurement practices. This information aims to support both contracting authorities and candidate tenderers in cross-border procurements.</td>
<td></td>
<td></td>
<td>study, tool</td>
<td></td>
<td>eTendering (eAttestation)</td>
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<tr>
<td>Essi</td>
<td>ESSI</td>
<td>DG-DIGIT</td>
<td>P. Schneider [link]</td>
<td>To provide the ESSI PKI services and the ESSI Application Platform to be used by the ESSI stakeholders</td>
<td>infrastructure/tools</td>
<td>eSignature</td>
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<td>EFVS, ETSI TC/ESI</td>
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<td></td>
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<td>DG-MARKT</td>
<td>Mr. N. Bohan</td>
<td>To evaluate the uptake of eProcurement especially with regards to the progress achieved under the 2004 Action Plan</td>
<td>evaluation</td>
<td>eNoticing eTendering eAwarding eOrdering eInvoicing eCatalogue eAttestation eSignature national eProcurement plans</td>
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<td>Fiscalis2013</td>
<td>Fiscalis</td>
<td>[link]</td>
<td>D. Boubill</td>
<td>EU Commission initiative: • Enhance the fight against tax fraud; • Continuously improve administrative procedures and practices to the benefit of administrations and business within the EU; • Ensure the exchange of information between national tax administrations as well as with traders through projects such as trans-European tax IT systems.</td>
<td>Activity &quot;audit of eInvoicing&quot; standardisation</td>
<td>eInvoicing, ePayment</td>
<td>Producing of audit standards (guidance paper), training standards, audit facilitation and practical compliance</td>
<td>Contact Person: G. Vandenakker [link]</td>
<td>CEN Workshop on eInvoicing Phase 2, ePrior - eInvoicing and eOrdering Pilot, eInvoicing Expert Group - ST 1 - Regulatory Framework stream</td>
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<td>a.eu/informati on_society/poli cy/esignature/crobies_stud y/index_en.ht m</td>
<td>study on Cross-Border Interoperability of eSignatures (CROBIES) is to propose solutions to remove barriers to cross-border interoperability of qualified electronic signatures and advanced electronic signatures based on qualified certificates. CROBIES concentrates on: supervision and accreditation systems of providers for qualified signature certificates, the establishment of a &quot;Trusted List of supervised/accredited certification service providers interoperability of Secure Signature Creation Devices (SSCDs).</td>
<td>Public profile: <a href="http://www.epract">http://www.epract</a> ice.eu/en/people/3894</td>
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<td>STORK, ETSI</td>
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<tr>
<td>ePrior</td>
<td>ePrior - eInvoicing and eOrdering Pilot</td>
<td><a href="http://www.epractic.eu/cases/ePrior">www.epractic.eu/cases/ePrior</a></td>
<td>DIGIT, DG-MARKT, funded by IDABC</td>
<td>To produce business requirements for eInvoicing systems in a public procurement context and cross-border environment and set up an eInvoicing and eOrdering pilot to be used by DIGIT and some of its suppliers, including an eCatalogues module.</td>
<td>A. Tosetti, head of unit DIGIT/B4, overall project owner. D. Thunus (<a href="http://www.epractice.eu/people/15626">http://www.epractice.eu/people/15626</a>) P. Breyne (<a href="http://www.epractice.eu/people/12256">http://www.epractice.eu/people/12256</a>) T. Chetcuti (<a href="http://www.epractice.eu/en/people/123056">http://www.epractice.eu/en/people/123056</a>)</td>
<td>pilot</td>
<td>eInvoicing eOrdering eCatalogues</td>
<td>Set up a prototype and run a number of pilots with suppliers to get real-life experience with eInvoicing and eOrdering; the RUP@EC methodology is applied; feasibility study and pilot on requirements for use of eCatalogues; a connector to the PEPPOL Infrastructure. An open-source version is made available to the MS on OSOR</td>
<td>PEPPOL WP5 - eInvoicing, WP4 - eOrdering, WP3 - eCatalogues, WP8 - Solutions architecture, design and validation, CEN Workshop on eInvoicing Phase 2, eInvoicing Expert Group, CEN BII - Workshop on ‘Business Interoperability Interfaces on public procurement in Europe’ and CEN BII 2</td>
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<tr>
<td><strong>PPL WP1</strong></td>
<td><strong>PEPPOL</strong></td>
<td><a href="http://www.peppol.eu">www.peppol.eu</a></td>
<td>DG-INFSO (CIP ICT/PSP programme)</td>
<td>Large scale pilot to set up integrated solutions for cross border eProcurement</td>
<td>Coordinator: Norwegian Agency for Public Management and eGovernment</td>
<td>WP1- eSignature</td>
<td>pilot</td>
<td>eSignature</td>
<td>Guidelines, specifications and pilot solutions to overcome the lack of interoperability between the different national schemes for electronically signing tender documents</td>
<td>M. Hagen <a href="http://www.epractice.eu/people/5417">http://www.epractice.eu/people/5417</a> Free Hanseatic City of Bremen</td>
<td>STORK</td>
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<tr>
<td><strong>PPL WP2</strong></td>
<td><strong>PEPPOL</strong></td>
<td><a href="http://www.peppol.eu">www.peppol.eu</a></td>
<td>DG-INFSO (CIP ICT/PSP programme)</td>
<td>Large scale pilot to set up integrated solutions for cross border eProcurement</td>
<td>Coordinator: Norwegian Agency for Public Management and eGovernment</td>
<td>WP2- Virtual Company Dossier</td>
<td>pilot</td>
<td>eAttestation</td>
<td>Interoperable solutions for economic operators in any European country to submit certificates and attestations electronically to any procurement agency</td>
<td>M. Wimmer University of Koblenz <a href="http://www.epractice.eu/people/7317">http://www.epractice.eu/people/7317</a> A. Mondorf <a href="http://www.epractice.eu/people/1712">http://www.epractice.eu/people/1712</a> <a href="mailto:peppol@uni-koblenz.de">peppol@uni-koblenz.de</a></td>
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<td><strong>PPL WP3</strong></td>
<td><strong>PEPPOL</strong></td>
<td><a href="http://www.peppol.eu">www.peppol.eu</a></td>
<td>DG-INFSO (CIP ICT/PSP programme)</td>
<td>Large scale pilot to set up integrated solutions for cross border eProcurement</td>
<td>Coordinator: Norwegian Agency for Public Management and eGovernment</td>
<td>WP3 - eCatalogue</td>
<td>pilot</td>
<td>eCatalogue</td>
<td>Interoperable solutions to manage eCatalogues used as part of a bid and for issuing orders in European Public eProcurement procedures</td>
<td>G. De Stefano - CONSIP <a href="http://www.epractice.eu/people/12322">http://www.epractice.eu/people/12322</a></td>
<td>CEN/BII 1 and CEN/BII 2</td>
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<td><strong>PPL WP4</strong></td>
<td><strong>PEPPOL</strong></td>
<td><a href="http://www.peppol.eu">www.peppol.eu</a></td>
<td>DG-INFSO (CIP ICT/PSP programme)</td>
<td>Large scale pilot to set up integrated solutions for cross border eProcurement</td>
<td>Coordinator: Norwegian Agency for Public Management and eGovernment</td>
<td>WP4 - eOrdering</td>
<td>pilot</td>
<td>eOrdering</td>
<td>Benchmark of available solutions and implementation of pilot arrangements on the data and process level for the exchange of eOrdering documents</td>
<td>S. Krammer <a href="http://www.epractice.eu/people/14289">http://www.epractice.eu/people/14289</a></td>
<td>CEN/BII 1 and CEN/BII 2 eInvPlt</td>
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<td>Acronym</td>
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<td>PPL WP8</td>
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<td>WP8- Solutions architecture, design and validation</td>
<td>Infrastructure / tools</td>
<td>eNoticing eTendering eAwarding eOrdering eInvoicing</td>
<td>Design and validation of the common specifications and building blocks which together will define the technical interoperability layer required to provide an operational e-business infrastructure</td>
<td>M. H. Brun <a href="http://www.eprac-tice.eu/people/1316">http://www.eprac-tice.eu/people/1316</a></td>
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<td>STORK- (Secure Identity across Europe linked)</td>
<td>STORK</td>
<td><a href="https://www.eid-stork.eu/index.php?option=com_processes&amp;act=list_documents&amp;l=1&amp;Itemid=60&amp;i">https://www.eid-stork.eu/index.php?option=com_processes&amp;act=list_documents&amp;l=1&amp;Itemid=60&amp;i</a> d=312</td>
<td>DG INFSO</td>
<td>The aim of the STORK project is to establish a European eID Interoperability Platform that will allow citizens and businesses to establish new e-relations across borders, just by presenting their national eID.</td>
<td>ePractice European eID Observatory</td>
<td>Pilot</td>
<td>eSignature eID</td>
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<td>PEPPOL</td>
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<tr>
<td>BII</td>
<td>CEN BII - Workshop on 'Business Interoperability Interfaces on public procurement in Europe' Phase 2 (WS/BII 2)</td>
<td><a href="http://www.cen.eu/cen/Sectors/ICT/IS">http://www.cen.eu/cen/Sectors/ICT/IS</a> SS/Activity/ Pages/WS_BII.aspx</td>
<td>CEN</td>
<td>The starting point for the Workshop was the CEN BII Phase 1 (<a href="http://www.ds.dk/en-GB/Sectors/ICT/IsSs/Activity/Pages/WS_BII.aspx">http://www.ds.dk/en-GB/Sectors/ICT/IsSs/Activity/Pages/WS_BII.aspx</a>).</td>
<td>S. Feder</td>
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### Standardisation

- **CEN BII - Workshop on 'Business Interoperability Interfaces on public procurement in Europe' Phase 2 (WS/BII 2)**
  - [Link](http://www.cen.eu/cen/Sectors/ICT/ISSS/Activity/Pages/WS_BII.aspx)
  - The starting point for the Workshop was the CEN BII Phase 1 ([Link](http://www.ds.dk/en-GB/Sectors/ICT/IsSs/Activity/Pages/WS_BII.aspx)).
  - [S. Feder](http://epractice.eu/en/people/12164)

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<td>EEG5/TBG6 Architecture, Engineering and Construction</td>
<td>standardisation</td>
<td>eTendering</td>
<td>eTendering Business Process Modelling</td>
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<td>EEG13/TBG19 eGov (eNoticing)</td>
<td>standardisation</td>
<td>eNoticing</td>
<td>to identify and formally define XML messages that can be used also at national levels, compliant with the Commission Regulation but also with UN/CEFACT and CEN</td>
<td>D. Hardy <a href="http://www.epinett.eu/people/3186">http://www.epinett.eu/people/3186</a> Web site <a href="http://www.cen.eu/cenorm/businessdomains/businessdomains/issss/activity/e-gov.asp">http://www.cen.eu/cenorm/businessdomains/businessdomains/issss/activity/e-gov.asp</a></td>
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| CEN WS/INV3 | CEN - Workshop on eInvoicing Phase 3 (CEN WS/INV3) | http://www.cen.eu/CEN/sectors/sections/activity/Pages/einvoicing_2.aspx, http://www.e-invoice-gateway.net/ | CEN | The overall target of Phase 3 will be “Integration of efforts in standardisation and developments”. This CEN e-invoice Platform will:  
• Be open to the participation of any interested party;  
• Reach stakeholder consensus on standards-related issues;  
• Provide the appropriate interface with international and other European standards activities. | S. Engel-Flechsig (http://www.epactice.eu/en/people/90087)  
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<td>TSL</td>
<td>TSL plugtest</td>
<td><a href="http://ec.europa.eu/information_society/policy/esignature/eu_legislation/trusted_lists/index_en.htm">http://ec.europa.eu/information_society/policy/esignature/eu_legislation/trusted_lists/index_en.htm</a></td>
<td>ETSI (European Telecommunications Standards Institute)</td>
<td>To enhance cross-border use of electronic signatures by increasing trust in electronic signatures originating from other Member States. The publicly available Trusted Lists will make it much easier for signature recipients to verify the e-signatures by complementing the data that can be retrieved from the e-signature and the qualified certificate and by providing also information on the supervised/ accredited status of Member States' certification service providers and their services. In order to allow access to the trusted lists of all Member States in an easy manner, the European Commission has published a central list with links to national &quot;trusted lists&quot;. This central list has been created by the</td>
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<td><strong>NES</strong></td>
<td>NES/UBL (Northern European Subset)</td>
<td><a href="http://www.nesubl.eu/">http://www.nesubl.eu/</a></td>
<td>NES consortium</td>
<td>A cooperation among a group of European countries and organizations to facilitate the electronic coop. in the procurement chain, based on available international standards (mainly, UBL)</td>
<td>J.Frømyr <a href="http://epractice.eu/en/people/12164">http://epractice.eu/en/people/12164</a></td>
<td></td>
<td>standardisation</td>
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<td>eTendering eOrdering eInvoicing ePayment eCatalogue</td>
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<tr>
<td><strong>UBL</strong></td>
<td>OASIS TC/UBL (The Universal Business Language)</td>
<td><a href="http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=ubl">http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=ubl</a></td>
<td>OASIS</td>
<td>UBL, the Universal Business Language, is the product of an international effort to define a royalty-free library of standard electronic XML business documents such as purchase orders and invoices</td>
<td>J. Bosak, T. McGrath <a href="http://www.epractice.eu/people/122041">http://www.epractice.eu/people/122041</a> Z. Rendon, J. Bryce Clark, OASIS Staff Contact</td>
<td></td>
<td>standardisation</td>
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<td>eTendering eOrdering eInvoicing ePayment eCatalogue</td>
<td>CEN/BII 1 and</td>
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<tr>
<td>UN/CEFACT</td>
<td>UN/CEFACT (United Nations Centre for Trade Facilitation and Electronic Business)</td>
<td><a href="http://www.unecce.org/cefact">http://www.unecce.org/cefact</a></td>
<td>UNECE</td>
<td>To encourage close collaboration between governments and private business to secure the interoperability for the exchange of information within the public and private sectors as well as between them</td>
<td>M. Doran UN/Cefact A. Grangard <a href="http://www.eprace.eu/people/13432">http://www.eprace.eu/people/13432</a></td>
<td>TBG1 - Supply Chain</td>
<td>standardisation</td>
<td>eOrdering eInvoicing</td>
<td>cross-industry eInvoicing and eOrdering schemas</td>
<td>C.Janssen, GS1 Netherlands</td>
<td>UBL, TBG19, eBES</td>
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<td>TBG6 - Construction</td>
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<td>eTendering</td>
<td>elaboration of eTendering schemas</td>
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**Communities and networks**

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<tr>
<th>Forum</th>
<th>EULab</th>
<th>Community of practitioners for the exchange of eProcurement knowledge and experience</th>
<th>G.L.Albano <a href="http://www.eprace.eu/people/12471">http://www.eprace.eu/people/12471</a></th>
<th>dissemination/ cooperation set-up</th>
<th>eNoticing eTendering eAwarding eOrdering eInvoicing</th>
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<tr>
<td>Forum</td>
<td>eProcurement Forum</td>
<td>IDABC</td>
<td>Community of practitioners for the exchange of eProcurement knowledge and experience</td>
<td>J.Remuinan Suarez <a href="http://www.eprace.eu/en/people/38188">http://www.eprace.eu/en/people/38188</a></td>
<td>dissemination/ cooperation set-up</td>
<td>eNoticing eTendering eAwarding eOrdering eInvoicing</td>
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## Annex II – Table of Ended Projects

### Map of Activities related to eProcurement

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<tr>
<th>Acr.</th>
<th>Name</th>
<th>Website/case</th>
<th>sponsor/respons.</th>
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<th>Sub-project contact/website</th>
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<tr>
<td><strong>eCAT</strong></td>
<td>CEN eCAT - Multilingual eCataloguing and eClassification in eBusiness</td>
<td><a href="http://www.cen.eu/cenorm/sectors/sectors/iss/iss/actvity/wsecat_epps.asp">http://www.cen.eu/cenorm/sectors/sectors/iss/iss/actvity/wsecat_epps.asp</a></td>
<td>CEN</td>
<td>The Workshop eCAT was re-launched in 2008 with a proposed duration of two years. The Workshop’s main deliverable will be two CEN Workshop Agreements (CWAs): 1) ePPS project will deliver a CWA on “Guidelines for the design, implementation and operation of an eProduct property server”. 2) CC3P project will deliver a CWA containing an analysis of the main classification systems used in Europe (CPV, eC@ss, GPC and UNSPCSC).</td>
<td>Dr C. Galinski</td>
<td>ePPS - Electronic Product Property Server <a href="http://www.cen.eu/cenorm/sectors/sectors/iss/actvity/wsecat_epps.asp">http://www.cen.eu/cenorm/sectors/sectors/iss/actvity/wsecat_epps.asp</a></td>
<td>eCatalogue</td>
<td>PEPPOL (mainly the CC3P), CEN BII, CEB eBIF</td>
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<tr>
<td>EFVS</td>
<td>European Federated Validation Service</td>
<td>Evaluation of a federated validation service acting as an intermediate trust infrastructure between the PKIs of Europe’s national public administrations</td>
<td>J. Stienen (<a href="http://www.eprac-tice.eu/people/7828">http://www.eprac-tice.eu/people/7828</a>)</td>
<td>Infrastructure/tools</td>
<td>eSignature</td>
<td>ESSI</td>
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<td>BII</td>
<td>CEN BII - Workshop on &quot;Business Interoperability Interfaces on public procurement in Europe&quot;</td>
<td>To provide a basic framework for technical interoperability in pan-European electronic transactions, expressed as a set of technical specifications</td>
<td>P. Borresen (<a href="http://www.eprac-tice.eu/people/11729">http://www.eprac-tice.eu/people/11729</a>)</td>
<td>WG1 - Message content and business processes</td>
<td>eNoticing, eTendering, eAwarding, eOrdering, eInvoicing</td>
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<td>P. Sonntagbauer (<a href="http://www.eprac-tice.eu/people/Sonntagbauer">http://www.eprac-tice.eu/people/Sonntagbauer</a>)</td>
<td>WG2 - UBL-UN/CEFACT convergence</td>
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<td>CEN - Workshop on eInvoicing Phase 2</td>
<td>CEN</td>
<td>To stimulate further standardization work in the domain of electronic invoices in Europe</td>
<td>Group 1: adoption of eInvoicing</td>
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| eInvoicing Expert Group              | DG-MARKT, DG-ENTR | Commission Expert Group on eInvoicing with a mandate to propose the EEI Framework. | ETSI TC/ESI, CEN eBES - Workshop on The e-business Board for European Standardization - TBG1 Supply-chain and eProcurement, CEN ePPE - Implementation of electronic public procurement in Europe |

## Annex III – Table of Reference Studies

**NOTICE:** For the CEN results (CWAs), please refer to the websites of each single workshop

<table>
<thead>
<tr>
<th>author/main responsible</th>
<th>Other contributors</th>
<th>Result name</th>
<th>Description</th>
<th>URL</th>
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<tr>
<td>ePrior-eInvoicing and eOrdering Pilot</td>
<td></td>
<td>Open e-PriOR</td>
<td>Open e-PRIOR is the open-source version of the e-PRIOR platform, developed and deployed by the Commission to allow the exchange of structured e-Procurement documents between the Commission and its suppliers. Open e-PRIOR provides an opportunity for reusability of an open-source solution that has already been implemented at the Commission and which provides a secure platform for document exchange.</td>
<td><a href="http://www.epractice.eu/en/news/315303">http://www.epractice.eu/en/news/315303</a></td>
<td>May 2009</td>
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<tr>
<td>DG-ENTR</td>
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<td>Summary of responses to the Public Consultation on the Final Report of the Expert Group on e-Invoicing</td>
<td>The Expert Group on e-Invoicing presented in its final report a set of recommendations for an European Electronic Invoicing Framework, supporting the uptake of cross-border interoperable e-Invoicing solutions, with a particular focus for uptake among SMEs. The public consultation on the final report of the Expert Group on e-Invoicing ran from 30 November 2009 to 26 February 2010. It sought to strengthen and deepen the European Commission services’ understanding of the way forward to promote uptake of electronic invoicing within the EU. The objective of this consultation was to collect stakeholders’ reactions on the recommendations proposed by the Expert Group on e-Invoicing in the areas of business requirements, legal framework, interoperability and standards, as well as the proposed approach for implementation and communication. All citizens and organisations were welcome to contribute. Contributions were particularly sought from SMEs, large enterprises, service providers, standardisation bodies and public authorities. The present document is a summary of the 87 responses received on the occasion of this public consultation.</td>
<td><a href="http://www.epractice.eu/en/library/318009">http://www.epractice.eu/en/library/318009</a></td>
<td>May 2010</td>
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<td>SEALED, time.lex and Siemens</td>
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<td>Study on the standardisation aspects of eSignature (CROBIES)</td>
<td>The CROBIES study looks at eSignature interoperability in general, but specifically in the context of cross-border use. While considering a consistent global and long term approach in proposed improvements at the legal, technical and trust levels, CROBIES is also focusing on quick wins that could substantially improve the interoperability of electronic signatures</td>
<td><a href="http://www.epractice.eu/en/library/320061">http://www.epractice.eu/en/library/320061</a></td>
<td>Mar 2010</td>
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<tr>
<td>PEPPOL WP4</td>
<td>work done in close connection with CEN BII</td>
<td>Standard Basic eOrdering Format and Data Structure</td>
<td>The report analyses the main initiatives and standardization approaches related to eOrdering that have been launched in the last years.</td>
<td><a href="http://www.epractice.eu/en/library/293106">http://www.epractice.eu/en/library/293106</a></td>
<td>Jul 09</td>
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<tr>
<td>PEPPOL WP3</td>
<td></td>
<td>Functional, Technical, legal and organisational specifications for the development of Building Blocks Software enabling cross-border use of eCatalogues</td>
<td>The deliverable documents the first activities of PEPPOL-WP 3 concerning the analysis of existing studies and initiatives, as well as legal frameworks at European and national levels which may have any relevance for eCatalogues. Therefore, the first activities of WP 3 comprised the analysis, synthesis and assessment of existing reports and documents.</td>
<td><a href="http://www.epractice.eu/en/library/293105">http://www.epractice.eu/en/library/293105</a></td>
<td>Jul 09</td>
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<td>PEPPOL WP8</td>
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<td>PEPPOL Infrastructure Open for Early Adopters</td>
<td>Version 0.8 of the PEPPOL infrastructure (Pan European Public Procurement) has been released on 1 May 2009. The release includes a simple demonstrator business application in addition to open source software libraries and other components.</td>
<td><a href="http://www.epractice.eu/en/news/289667">http://www.epractice.eu/en/news/289667</a></td>
<td>May 09</td>
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<td>PEPPOL WP2</td>
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<td>Functional and non-functional requirements specification for the VCD</td>
<td>The deliverable documents the first activities of PEPPOL-WP 2 concerning the analysis, synthesis and assessment of existing company dossier structures of individual Member States and the achievements of previously run studies from the DG-MARKT or other relevant EU bodies, and initiatives like the EU-co-funded BRITE project.</td>
<td><a href="http://www.epractice.eu/en/library/292099">http://www.epractice.eu/en/library/292099</a></td>
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<td>PEPPOL WP1</td>
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<td>Requirements for Use of Signatures in Public Procurement Processes</td>
<td>It is the first version of functional specifications for cross-border interoperability of eSignatures in Europe. The specifications are specifically targeted at cross-border public procurement, the topic of Pan-European Public Procurement On-Line (PEPPOL)</td>
<td><a href="http://www.epractice.eu/en/library/292100">http://www.epractice.eu/en/library/292100</a></td>
<td>Apr 09</td>
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<tr>
<td>ePrior- eInvoicing and eOrdering Pilot</td>
<td></td>
<td>Analysis of Business Requirements for eInvoicing</td>
<td>The report is one of the deliverables of the IDABC eInvoicing &amp; eOrdering pilot project; it contains the results of the business requirements gathering process for eInvoicing in a public procurement context.</td>
<td><a href="http://epractice.eu/en/library/288906">http://epractice.eu/en/library/288906</a></td>
<td>Mar 09</td>
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<td></td>
<td></td>
<td>Standard Basic eOrdering Format and Data Structure</td>
<td>The report analyses the main initiatives and standardization approaches related to eOrdering that have been launched in the last years.</td>
<td><a href="http://www.epractice.eu/en/library/293106">http://www.epractice.eu/en/library/293106</a></td>
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<td>PROCURE</td>
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<td>Electronic Signatures as Obstacles for Cross-Border eProcurement in Europe – Lessons from the PROCURE project</td>
<td>This article analyses success-factors and barriers for eSignature cross-border adoption from a legal point of view and makes recommendations for European legislation and individual measures to better align national regulations and the mutual recognition of eSignatures in eProcurement among the Member States are made.</td>
<td><a href="http://www.epractice.eu/en/library/292080">http://www.epractice.eu/en/library/292080</a></td>
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<td>PEPPOL WP8</td>
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<td>Version 0.8 of the PEPPOL infrastructure (Pan European Public Procurement) has been released on 1 May 2009. The release includes a simple demonstrator business application in addition to open source software libraries and other components.</td>
<td><a href="http://www.epractice.eu/en/news/289667">http://www.epractice.eu/en/news/289667</a></td>
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<td>Version 0.8 of the PEPPOL infrastructure (Pan European Public Procurement) has been released on 1 May 2009. The release includes a simple demonstrator business application in addition to open source software libraries</td>
<td><a href="http://www.epractice.eu/en/news/289667">http://www.epractice.eu/en/news/289667</a></td>
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<td>DG-MARKT</td>
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<td>Commission survey on uptake of eProcurement</td>
<td>Commission launches online survey of four stakeholder groups (MS, economic operators, contracting authorities and central purchasing bodies) to assess up-take and experience of practitioners, in the context of evaluating the impact of the eProcurement Action Plan</td>
<td><a href="http://www.eppractice.eu/node/284989">http://www.eppractice.eu/node/284989</a></td>
<td>Jan 09</td>
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<td>CEN/ISS elnvoicing 2</td>
<td>Fiscalis</td>
<td>eInvoice Best practice</td>
<td>Guidelines (Excel file) and Commentary - Draft version</td>
<td><a href="http://www.eppractice.eu/node/281857">http://www.eppractice.eu/node/281857</a></td>
<td>Jul 08</td>
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<td>elnvoicing Expert Group</td>
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<td>1st status report of the Expert Group on elnvoicing</td>
<td>Status report from the Expert Group on elnvoicing</td>
<td><a href="http://www.eppractice.eu/node/281818">http://www.eppractice.eu/node/281818</a></td>
<td>Jan 08</td>
<td>study funded by IDABC in context of EU eProcurement Action plan</td>
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<td>DG-MARKT</td>
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<td>Verification of compliance with the Public Procurement - Final Report</td>
<td>Report of a study for the identification, analysis and comparison of optimum mechanisms for verifying the compliance of tools and systems with the requirements of the public procurement Directives</td>
<td><a href="http://www.eppractice.eu/node/281800">http://www.eppractice.eu/node/281800</a></td>
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<td>DG-MARKT</td>
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<td>Electronic transmission of public procurement notices for publication</td>
<td>A study to determine different scenarios for introducing a system of mandatory eNotification in a coherent regulatory and technical environment.</td>
<td><a href="http://www.eppractice.eu/node/281802">http://www.eppractice.eu/node/281802</a></td>
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<td>IDABC-DG MARKT</td>
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<td>IDABC XML Schemas for Public Procurement</td>
<td>The eProcurement XML schemas initiative aimed at proposing a set of generic XML schemas to support the automation of data exchanges in the different phases of electronic public procurement.</td>
<td><a href="http://www.eppractice.eu/node/281836">http://www.eppractice.eu/node/281836</a></td>
<td>Jan 05</td>
<td>study funded by IDABC in context of EU eProcurement Action plan</td>
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## Annex IV – Table of Referenced Legal Acts

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<tr>
<td>DG-MARKT DG INFSO, DG DIGIT DG ENTR</td>
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<td>eSignature &amp; eAuthentication Action Plan</td>
<td>Action Plan on eSignatures and eIdentification to facilitate the provision of crossborder public services in the Single Market</td>
<td><a href="http://www.epractice.eu/node/281876">http://www.epractice.eu/node/281876</a></td>
<td>Nov 08</td>
<td>study funded by IDABC in context of EU eProcurement Action plan</td>
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<td>DG-MARKT</td>
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<td>Preliminary Study on eCertificates and eAttestations - Final Report and National Country Profiles</td>
<td>The goal of the study is to identify if and how electronic certificates and attestations are currently issued, accepted and validated in public procurement procedures across the EU and EEA Vol 1-Country reports Vol 4-Final Report</td>
<td><a href="http://www.epractice.eu/node/281843">http://www.epractice.eu/node/281843</a></td>
<td>Sep 08</td>
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<tr>
<td>DG-MARKT</td>
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<td>New Common Procurement Vocabulary</td>
<td>Regulation (EC) 213/2008 revising the Common Procurement Vocabulary (CPV) used to describe the subject of procurement contracts.</td>
<td><a href="http://www.epractice.eu/node/281871">http://www.epractice.eu/node/281871</a></td>
<td>Sep 08</td>
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<td>DG-MARKT</td>
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<td>eNoticing forms</td>
<td>Regulation (EC) 1564/2005 establishing standard forms for the publication of procurement notices in the OJEU</td>
<td><a href="http://www.epractice.eu/node/281633">http://www.epractice.eu/node/281633</a></td>
<td>Oct 05</td>
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<td>DG-MARKT</td>
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<td>eProcurement Action Plan</td>
<td>Action plan for the implementation of the new EU legal framework for electronic public procurement</td>
<td><a href="http://www.epractice.eu/node/281022">http://www.epractice.eu/node/281022</a></td>
<td>Dec 04</td>
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