

## Technical description of eProcurement cases

Please consider only the sections and questions that are pertinent for your specific case.  
We invite you to provide some text whenever it could be useful to better explain your answer or whenever you need to add some additional information.

Name of the case: LOCAL TRUST, open-source e-tendering solution

Acronym of the case: LOCAL TRUST

Case URL (please complete): <http://epractice.eu/cases/localtrust>

### eProcurement phases [content to be integrated in the section 11 - case abstract]

Please indicate which eProcurement phases (see definitions in [Appendix](#)) are covered by the system and to which degree (FC: fully covered, PC: partially covered, NC: not covered); for each phase, briefly describe how it is implemented (see guidelines in [Appendix](#))

Phase	Coverage	Comments (please provide short explanations for each supported phase)
eSourcing	PC	Register of suppliers Main domain of supplies described with CPV code
eNoticing	FC	XML eNotices are created through the application. They are published to the JOUE, the French official journal and other media (by human readable e-mail or XML)
eAccess	FC	Download of tender documents by Suppliers
eSubmission	FC	Online submittal with digital signature and encryption if applicable eAuction is possible
eAwarding	FC	Electronic notification of awarding decision Registering of contract(s) details Digital signature of contract by Buyer is possible Automatic generation of statistic report on public markets compliant with the EC and French regulations
eContract	FC	See above
eOrders	NC	
eInvoice	NC	
ePayment	NC	

### eProcurement procedures [content to be integrated in the section 11 - case abstract]

Please indicate which one of the following procedures (see definitions in [Appendix](#)) are supported by the system:

Procedure	Supported (Y/N)	Comments (please provide short explanations for each supported procedure)
Open procedure	Y	All the procedures of the Directive 2004/182/EC are supported
Restricted procedure	Y	All the procedures of the Directive 2004/182/EC are supported
dynamic purchasing systems	Y	All the procedures of the Directive 2004/182/EC are supported
framework agreement systems	Y	All the procedures of the Directive 2004/182/EC are supported

### Compliance against Public eProcurement Functional Requirements [content to be integrated in the section 16 - policy context and legal framework]

Please indicate which ones of the following functional requirements (described in IDABC document "Functional Requirements for eProcurement under the EU Framework": <http://www.epractice.eu/en/library/281505>) your system is compliant with (FC: Fully Compliant, PC: Partially compliant - please explain, NC: Not Compliant)

#	Functional Req.	Description	Comp	Comments
1	User Registration	New Procurement Officers and Tenderers can be registered to the eProcurement system	FC	

		which ensures the confidential transfer and storage of all personal information of users.		
2	User Profiling	The eProcurement system can store personal information of its registered users. Users can update their personal information if required.	FC	
3	User Authentication	Users are allowed to identify themselves to the eProcurement system	FC	
4	User Authorisation	The eProcurement system is aware of the role of a user	FC	
5	Tender workspace creation	Procurement Officers can access a virtual workspace for storing all Call-related information and authorised users can provide core information about the Call or upload documents.	FC	
6	Preparation of a Prior Information Notice	Procurement Officers are assisted in creating a PIN by using an application for the preparation of the Notice to be published in the Official Journal.	FC	
7	Use of the Common Procurement Vocabulary (CPV) classification standard	Use of the Common Procurement Vocabulary (CPV) classification standard	FC	
8	Publication of a Prior Information Notice	Procurement Officers can be assisted to dispatch an appropriate electronic message to the OJEU, containing all information of the PIN, to request for its publication.	FC	
9	Nomenclature of Territorial Units for Statistics (NUTS) classification standard	The Contract Notice may specify the NUTS codes for the contract to be procured.	FC	
10	Tender Evaluation Mechanism	Contracting authorities shall conclude a competition by performing the full evaluation of Tenders received, and the awarding of a contract	FC	
11	Interface with the OJEU	For contracts above the EU thresholds, as defined in the EU public procurement directives, the Contract Notice needs to be published to the Official Journal of the European Union (OJEU).	FC	In France, eNoticing to the OJEU is managed through eNoticing of the Official journal Direct eNoticing to the OJEU is also possible
12	Publication of Contract Documents	Once the Contract Notice has been published by the OJEU, it may also be published at the national level, and all interested parties should be given unrestricted and full access to the Contract Documents.	FC	
13	Search Calls mechanism	An eProcurement system may provide a search Calls mechanism for public "open" Calls and locate interesting ones.	FC	Including an approximate search
14	Visualise/Download Call for Tenders specifications	Any interested party should be provided with the functionality to access all publicly available information of a Call.	FC	
15	Request for Additional Documents	Any interested party may be provided with the possibility to request Additional Documents.	FC	
16	Automated Notifications	An eProcurement system may support a mechanism to automatically notify its users of interesting events.	FC	Alerts are configured by Suppliers with various criteria (territorial reference, CPV code, key words, etc.)
17	Submission of Tenders	Economic Operators interested in a Call shall have the possibility to submit electronically the Tenders that they have prepared.	FC	

18	Four-eye Principle	An eProcurement system needs to ensure that access to Tenders cannot be obtained by anyone, until authorised procurement officers proceed to the opening of Tenders following the four-eye principle.	FC	The four-eye principle is natively managed. It is also possible to configure other types of procedures without this constraint
19	Tender Confidentiality	Once Tenders are opened, they can only be accessed by authorised personnel, ensuring that the confidentiality of Tenders is not violated.	FC	
20	Tender Evaluation	An eProcurement system may assist procurement officers to perform the evaluation of Tenders, either in an automated or semi-automated way.	PC	The Tender evaluation is fully automated for eAuctions. For other types of procedures, the system does not manage an automated evaluation, but it enables Buyers to save their evaluation of the various bids. Further integration with the procurement software EPM ( <a href="http://www.epm.paris.fr/">http://www.epm.paris.fr/</a> developed by ATEXO for the Ville de Paris) can manage an advanced automated evaluation of bids
21	Creation of Mandatory Reports regulated by the legislation	The eProcurement system assists the contracting authority in the creation of these Reports, utilising all information created/stored in it during the competition.	FC	Natively creating the reports to the EC and to the French regulatory organisations. Configuring an additional report is an easy task, without development as such
22	Invitation to Tender	The eProcurement system should automatically or semi-automatically calculate the deadline for submitting Tenders, as well as, prepare appropriate messages to all Economic Operators involved.	FC	The deadline is automatically calculated in the eNoticing module
23	DPS reporting	Authorised Procurement Officers may be provided with the possibility to produce DPS reports, not only reporting details of its establishment, but also information about specific contracts procured within it	FC	Reports may include specific contracts as well as the establishing DPS tender
24	Creation of specific contract workspaces within DPS workspace	An eProcurement system can allow the creation of as many specific contract workspaces within the DPS workspace as required by the contracting authority.	FC	
25	Indicative Tenders in the form of electronic catalogues (eCatalogues)	An eProcurement system may assist contracting authorities in defining the format of an electronic catalogue and provide the necessary support for allowing Economic Operators to create their Indicative Tenders in the required format, and/or allow Procurement Officers to visualise eCatalogues.	NC	As per the Directive, the selection of the indicative offers is managed as an open procedure. The solution does not manage eCatalogues at this stage
26	Creation of eAuction workspace and establishing eAuction details	The system allows the creation of a virtual workspace for eAuction, accessible only to authorised users; eAuction parameters should be established and fixed within it. Subsequent eAuction activities, such as tenderers' placing of Bids and displaying of the ranking of Tenders may be performed within this virtual eAuction workspace or using the services of an external	FC	The eAuction is managed entirely internally to the application. It does not need any external provider

		eAuction provider.		
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**Transferability/adaptability of the solution to different contests** [content to be integrated in the section 29 - Track record of sharing]

Please answer the following questions to provide information on how difficult could be to re-use the system within a different context

- Could the system be adopted by other Public Authorities in your country, operating at the same level?
  - If no, why (mention legal, technical, organisational barriers)?

Yes. It is indeed the case. All the French Ministries use the LOCAL TRUST solution

- Could the system be adopted by other Public Authorities in your country, operating at other levels?
  - If no, why (mention legal, technical, organisational barriers)?

Yes. It is indeed the case. The majority of the big local authorities (large cities, regions, departments, etc.) and other public organisations use LOCAL TUST solution

- Could the system be adopted by Public Authorities in other countries?
  - If no, why (mention legal, technical, organisational barriers)?

Yes. It is indeed the case already in the Czech Republic (Central Bohemia region) and in Morocco (all Ministries and all local authorities)

Can you mention any experience of adoption of this system in other contests? (please mention difficulties and positive results)

Examples of project deployed:

- French administration e-procurement platform (PMI project, [www.marches-publics.gouv.fr](http://www.marches-publics.gouv.fr))
- Burgundy Region regional e-government platform ([www.e-bourgogne.fr](http://www.e-bourgogne.fr))
- Ville de Paris e-procurement platform (<https://m13.paris.fr/>) and project site (<http://www.epm.paris.fr/>)
- Morocco's national e-procurement platform ([www.marchespublics.gov.ma](http://www.marchespublics.gov.ma)) starting from 2T2010)

The LOCAL TRUST solution is used by ~20 000 Purchasing Authorities. Approximately 100 000 tenders are managed on LOCAL TRUST every year.

**Interoperability of the solution** [content to be integrated in the PART C - section 24b]

Please mention technological standards adopted in the implementation of the system:

The solution is fully open source.

The core solution was developed using a Linux-Apache-MySQL-PHP architecture.

For a specific project, a fork has been re-developed in java ona Java EE architecture.

**Use of key-enablers** [content to be integrated in the PART C - section 24b]: (see guidelines in [Appendix](#))

- eSignature
  - Does the system accept signed bids/documents from economic operators based in your country? (please explain the kinds of accepted signatures)

Yes.

The solution manages natively the configuration of the constraints the Purchasing Authority wants to apply to the type of digital signature accepted (ex.: usage of qualified certificates, etc.)

- Does the system accept signed bids/documents from economic operators bases in other counties? (please explain the kind of accepted signatures)

Yes.

The registration process manages natively a specific workflow for foreign Suppliers.

Regarding digital signature, the solution may be configured not to filter the signed bids according to the Certification Authority have issued the digital certificate of the signer.

In this case, the bid is received even if signed by a foreign Supplier with a foreign certificate. During the bids evaluation phase, the Purchasing Authority will be able to take all the time necessary to verify the validity of this foreign digital signature.

This implementation is the most adopted among the LOCAL TRUST clients.

In addition, we are a member of the PEPPOL consortium in order to implement into the LOCAL TRUST solution the native management of certificate validation by an XKMS request to the European-wide certificate validation architecture.

- Which kind of eSignature is used (qualified, advanced,..)? Please mention standards in use, if any.

The solution manages natively the configuration of the constraints the Purchasing Authority wants to apply to the type of digital signature accepted (ex.: usage of qualified certificates, etc.)  
By default, the solution manages PKCS7-CMS-CADES signatures.  
Extending to XAdES is possible.

Other comments:

➤ eAttestations

- Does the system accept electronic certificates and attestations?

Yes.

The certificates and attestations are provided electronically. They may be uploaded in a Company Dossier on the e-tendering platform, in order not to re-submit them at each tender.

- Can they be provided by third parties operating in your country?

No.

At this stage, we have deployed LOCAL TRUST only in countries where the regulations on public contracts were assuming that the candidates provide the certificates and attestations themselves.

- Can they be provided by third parties operating in other countries?

Yes, with no restriction.

In addition, we are a member of the PEPPOL consortium in order to implement into the LOCAL TRUST solution the native management of the PEPPOL VCD standards.

Other comments:

➤ eCatalogues

At this stage, the LOCAL TRUST solution does not manage eCatalogue.  
We plan to work on these functionalities in 2010-2011.

- Does the contract documents impose buyer's format for eCatalogues? Or is the description limited to the submission techniques for eCatalogues and the minimum information that should be included in tenders?
- Does the system allow contracting authorities to provide to suppliers tools for easily verifying the correct formatting of their eCatalogues (possible checks are, for instance: Correct technical format, Correct data and numerical values in specific fields, Valid product classification codes....)?
- Does the system allow suppliers to create eCatalogue prospectuses directly in the systems? If it is so, do the prospectuses abide to industry-wide standards?
- Does the system support the submission, reception and storage of eCatalogues-based tenders?
- Please mention adopted standards, if any:

Other comments:

➤ eArchiving

- Does the system support the electronic archiving of digital documents?

Yes

- Which standards are adopted?

The solution manages the XML standard of the Archives de France (see [https://www.ateliers.modernisation.gouv.fr/ministeres/projets\\_adele/a103\\_archivage\\_elect/public/standard\\_d\\_echange\\_d/english-version-of-the/downloadFile/file/archives\\_echanges\\_v0-1\\_description\\_standard\\_v1-0-english\\_v.pdf?nocache=1164296812.89](https://www.ateliers.modernisation.gouv.fr/ministeres/projets_adele/a103_archivage_elect/public/standard_d_echange_d/english-version-of-the/downloadFile/file/archives_echanges_v0-1_description_standard_v1-0-english_v.pdf?nocache=1164296812.89))

Other comments:

### Localisation

- Does the system provide multilingual interfaces?

Yes

- Which languages are supported?

French, English, Spanish, Czech and Arabic.

Adding another language does not require any development but only configuration of the value of the labels in the new language.

- Does the system allow the publication or submission of documents in different languages? Which ones?

Yes

The solution manages the submission of documents in any language (tender documents, bids, etc.). Nota: The Purchasing Authority is likely to impose some restrictions but these are not technical restrictions. The direct eNoticing to the OJEU is managed in French by default. We plan to be certified eSender in English and in any additional language required by a Client.

**Impact** [content to be integrated in PART D - Impact, innovation and results]

#### ***On Public Authorities***

Please indicate the expected/actual impact on Public Authorities (for example indicate how many Public Authorities are registered to use the system and how many of them have actually used it in the last year. If possible, provide percentage with respect of the total of the Public Authorities operating at your system's delivery level):

LOCAL TRUST is the leading solution for e-tendering in France, where e-tendering has been compulsory for every formal public contract since 01/01/2005.

There are approximately 20 000 Purchasing Authority using LOCAL TRUST for 100% of their formal tenders, i.e. 100 000 tenders per annum.

In Morocco, all the public Buyers will use the marchespublics.gov.ma platform for e-tendering. Effective usage will begin in the second quarter of 2010.

#### ***On Private Sector***

Please indicate the expected/actual impact of the system on the private sector (for example, indicate how many companies are registered to use the system and how many of them have actually used it in the last year. If possible, provide percentage with respect of the total of the companies and indicate how many of them are SMEs):

Each platform manages its own register of Suppliers. As examples, there are 10 000 registered companies on the e-bourgogne platform (Burgundy Region and 1 000 local public Buyers) and 45 000 registered companies on the PMI platform (all French ministries and State-level public entities).

At the occasion of the eTEN PROCURE project, the Chamber of commerce of Paris made a survey on the vision of the LOCAL TRUST e-tendering platform among 400 Suppliers of the Brittany region

- Over 70% state that e-tendering is simpler, cheaper and quicker than paper submittal. It is best fitted to their work process

- 51% use the functionality of download of tender documents

- 13% were using digitally signed electronic submittal- 40% have not yet experiences electronic submittal but plan to do so in the near future

NB: The rate of electronic submittal has grown fast since 2008. In addition, since 01/01/2010, electronic submittals have been made compulsory for IT related tenders. Starting 01/01/2012, a public Buyer will be able to make electronic submittals compulsory for any tender

**Benefits** [content to be integrated in PART D - Impact, innovation and results]

Please describe the main (expected and measured) benefits received by the Public Authorities and by the tenderers from the adoption of the system:

The pre-award e-procurement solution LOCAL TRUST matches strategic objectives of the Public Authorities:

- Development of information society: everyday usage of e-services for businesses and administrations
- Economical development: favouring access to public tenders by increasing visibility, better access to SME's to public tenders, technology transfer to local ICT companies at project stage (open source)
- Modernizing of public services: development of e-government online services to businesses, efficiency gains, better procurement services (larger access to the market, reduced financial and administrative barriers to propositions, better knowledge of suppliers)
- Fight against corruption: security and traceability of tendering of public contracts
- Durable development: reduced paper

In addition, eTendering provides compliance with regulations applicable in France, where e-tendering is compulsory. eAuction provides a directly measurable financial benefit. French Ministry of finance claims a 1M€ discount obtained after going through an e-auction process for a public contract for IT materials worth 3M€.

**User Training and Support** [content to be integrated in PART D - Impact, innovation and results]

Please mention services aimed at supporting civil servants and tenderers in the use of the services (i.e.: on-line help system, training tools, ..)

The project of deploying LOCAL TRUST includes key training and support aspects.

Regarding training, the project scope systematically includes the training of public buyers. For example, training of 800 trainers to train 10 000 buyers of the French ministries.

The success of the project is demultiplied if an ambitious training program for suppliers is developed. Practically, it can be the training of trainers that manage open training sessions for companies. A specific focus can be made on the SME's. Burgundy Region (e-bourgogne.fr) and Brittany Region (e-megalisbretagne.org) have developed the most ambitious training programs towards suppliers (within the chambers of commerce and with trainers paid by the Region). As a consequence, they prove to be the platforms with the highest level of electronic submittals and they claim that the share of SME's in the public procurement has significantly increased.

**Related/comparable cases:** please indicate projects, initiatives, pilots that are similar or that can be compared with your system (names and URLs):

*Thank you for your cooperation!*

# Appendixes

## Appendix I: Electronic procurement (eProcurement) definitions

The term *eProcurement* refers to the use of electronic means in conducting a public procurement procedure for the purchase of goods, works or services.

### eProcurement sub-phases

- **eSourcing**: preparatory activities conducted by the contracting authority/entity to collect information for the preparation of a call; potential bidders are contacted by electronic means to provide quotations or manifest interest.
- **eNoticing** advertisement of calls for tenders through the publication of appropriate contract notices in electronic format in the relevant Official Journal (national/EU).
- **eAccess**: electronic access to tender documents and specifications as well support to economic operators for the preparation of an offer, e.g. clarifications, questions and answers.
- **eSubmission**: submission of offers in electronic format to the contracting authority/entity, which is able to receive, accept and process it in compliance with the legal requirements.
- **eTendering**: is the union of the eAccess and eSubmission phases.
- **eAwarding**: opening and evaluation of the electronic tenders received, and award of the contract to the best offer in terms of the lowest price or economically most advantageous bid.
- **eContract**: conclusion, enactment and monitoring of a contract / agreement through electronic means between the contracting authority/entity and the winning tenderer.
- **eOrders**: preparation and issuing of an electronic order by the contracting authority/entity and its acceptance by the contractor.
- **eInvoicing**: preparation and delivery of an invoice in electronic format.
- **ePayment**: electronic payment of the ordered goods, services or works.

To successfully conduct electronic procurement across borders, eProcurement systems rely on some “key-enablers”:

- **eSignature**: data in electronic form which are attached to or logically associated with other electronic data and which serve as a method of authentication with regard to this data.
- **eIdentity**: dynamic collection of all attributes, in electronic format, related to a specific entity (citizen, enterprise, or object) which serve to ascertain a specific identity.
- **eAttestations (Virtual Company Dossier)**: set of certificates and attestations, in electronic format, to be provided by a supplier to prove compliance with the selection and exclusion criteria of a procurement procedure.
- **eCatalogues**: electronic supplier catalogue prospectuses used to prepare and submit offers or parts of them.
- **eArchiving**: use of electronic means for long-term preservations of documents in digitalised format, ensuring that they can be easily retrieved without conversions.

## Public Procurement Procedures

### Individual contracts

- **Open procedure**: whereby any interested Economic Operator may submit a Tender in response to a call for tender. The Contracting Authority does not perform a prior selection and/or dispatch an invitation.
- **Restricted procedure**: any Economic Operator may request to participate and whereby only those Economic Operators invited by the contracting authority may submit a Tender.

### Repetitive contracts

- **Dynamic Purchasing System (DPS)**: a fully electronic process for contracting authorities for making commonly used purchases, which are generally available on the market and meet the requirements of the contracting authority.
- **Framework Agreement**: is an agreement between one or more contracting authorities and one or more Economic Operators, to establish the terms governing contracts to be awarded during a given period.

### Extensions

- **Electronic auctions (eAuctions)**: are repetitive processes involving the use of an electronic device for the presentation by tenderers of improved offers for a specific Call for Tenders, after an initial full evaluation of the Tenders. eAuctions can be utilised as an extension to the awarding phase of a tendering procedure but do not constitute a complete eProcurement procedure for awarding contracts.

## Appendix II: Electronic procurement (eProcurement) guidelines (by phases and key-enablers)

- **eSourcing:** no guidelines.
- **eNoticing**
  - Support for OJS eSender (an organisation which compiles notices into an electronic format agreed with the Publications Office) is available at [http://simap.europa.eu/OJS\\_eSenders/sending\\_XML\\_notices\\_en.html](http://simap.europa.eu/OJS_eSenders/sending_XML_notices_en.html)
  - The Common Procurement Vocabulary (CPV) establishes a single classification system for public procurement aimed at standardising the references used by contracting authorities and entities to describe the subject of procurement contracts. CPV codes in use are available at: <http://www.epractice.eu/en/library/281871>
  - DG-MARKT study on “Electronic Transmission of Procurement Notices for Publication”: <http://www.epractice.eu/en/library/281802>
- **eAccess:** see IDABC document “Functional Requirements for eProcurement under the EU Framework”: <http://www.epractice.eu/en/library/281505>
- **eSubmission:** see IDABC document “Functional Requirements for eProcurement under the EU Framework”: <http://www.epractice.eu/en/library/281505>
- **eTendering:** see IDABC document “Functional Requirements for eProcurement under the EU Framework”: <http://www.epractice.eu/en/library/281505> see also the IDABC eProcurement XML Schema;
- **eAwarding:** see IDABC eProcurement Schemas below;
- **eContract:** no guidelines.
- **eOrders:** See NES/UBL initiative and the IDABC eProcurement XML Schema below;
- **eInvoicing:**
  - CEN/ISSS initiatives - CWAs regarding eInvoicing produced during phase I, are:
    - [CWA 15574:2006](#) - Commission Recommendation 1994/820/EC October 1994, proposed revision with the requirements of Directive 2001/115/EC, present day e-Commerce practices and revised definition of EDI Electronic Data Interchange.
    - [Annex to CWA 15574:2006](#)
    - [CWA 15575:2006](#) - The list of invoice content details identified in the directive 2001/115/EC expressed as UN/CEFACT Core Components.
    - [CWA 15576:2006](#) - Recommendation to allow coded identifiers as an alternative to the current unstructured clear text identifications.
    - [CWA 15577:2006](#) - A standardised set of codes with definitions to replace plain text clauses in eInvoice messages for VAT exemptions.
    - [CWA 15578:2006](#) - Survey of VAT Data Element usage in the Member States and the use of codes for VAT Exemptions (containing Annex 1 & 2).
    - [Annex 3 to CWA 15578:2006](#)
    - [Annex 4 to CWA 15578:2006](#)
    - [CWA 15579:2006](#) - E-invoices and digital signatures.
    - [CWA 15580:2006](#) - Storage of Electronic Invoices.
    - [CWA 15581:2006](#) - Guidelines for eInvoicing Service Providers.
    - [CWA 15582:2006](#) - eInvoice Reference Model for EU VAT purposes specification.
  - The NES/UBL initiative is a cooperation project on eCommerce and eProcurement started by representatives from Denmark, Sweden, Norway, Finland, UK and Iceland with the objective of facilitating harmonisation of different types of eProcurement documents using UBL<sup>1</sup>: see <http://www.nesubl.eu>. NES identified a subset of 8 (out of the 22 in UBL) documents, addressing eCatalogues, eOrders and eInvoice.
  - See also the IDABC eProcurement XML Schemas below.

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1 . UBL is an open and freely available library of XML documents for eCommerce, covering electronic procurement and transport. The second version of UBL (UBL 2.0) was approved as an OASIS Standard in December 2006.

- **ePayment:** see the homepage of the SEPA (Single Euro Payment Area) Project <http://www.ecb.int/paym/sepa/html/index.en.html>

The eProcurement XML schemas (<http://www.epractice.eu/en/library/281836>) are generic data models to support the automation of data exchanges in the different phases of electronic public procurement. The XML schemas are conceived to help software developers and standardisation bodies. The phases covered by the XML Schemas are eOrders, eInvoicing, eTendering and eAwarding.

- Description of [eOrdering and eInvoicing](#) data models
- Description of [eTendering and eAwarding](#) data models
- eProcurement [XML schemas](#)
- Schemas [validation tool](#)
- Installation [Instructions](#) & [User Manual](#)

Public eProcurement “key-enablers”:

- **eSignature:** final report of the Study on the Standardisation Aspects of eSignatures available at: <http://www.epractice.eu/en/library/281604>
- **eIdentity:** <http://www.epractice.eu/en/library/281734>
- **eAttestations** (*Virtual Company Dossier*): a report on the electronic attestations and certificates used in 32 European countries (National Country Profiles) is available at: <http://www.epractice.eu/en/library/281843>.
- **eCatalogues:** See NES/UBL above and DG-MARKT study with preliminary functional requirements on eCatalogues <http://www.epractice.eu/en/library/281801>
- **eArchiving:** a survey on eInvoicing and eArchiving delivered in November 2005 is available at: <http://www.epractice.eu/en/library/281685> .