

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**



Name

Address

Telephone

Fax

E-mail

Nationality

Date of birth

**PERSONAL INFORMATION**

**DELOS OLIVIER, JACQUES, J., C., M.**

**38, RUE DU CHATEAU, 1470 GENAPPE - BELGIQUE**

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Belgian

26, April, 1969



**CERTIFICATIONS**

**CISSP, CISA**

**WORK EXPERIENCE**

• Dates (from – to)

**01, July, 2005 - now**

• Name and address of employer

**SEALED sprl**

Rue Monseigneur Dechamps, 2

7540 Rumillies

Belgium

Information security consulting

Managing Partner

• Type of business or sector

• Occupation or position held

• Main activities and responsibilities

- Senior Information Security & PKI Consultant
  - Policies & practices for trust services & TSPs, Design and Audit preparation
  - Digital proofs & eSignatures, Time stamping
  - Electronic identity & IAM
  - ePassports
  - PKI & trust services (eID credentials and ICAO MRTDs)
  - ERDS
  - Long term preservation & archival
- Business Development Manager

• Dates (from – to)

**01, February, 2003 – 30, June, 2005**

• Name and address of employer

**Certipost s.a.**

Centre Monnaie

1000 Brussels

Belgium

Facilitation & Certification of electronic Communication

• Type of business or sector

- Certification Service Provider (E-Trust Qualified CSP, CSP for Belgian electronic identity eID Cards)
- Information security consulting and PKI related complex projects
- ASP platform of eServices: eDelivery, eInvoicing, eBilling, eSupply, eWorker, eRegistered Mail

- Occupation or position held
- Main activities and responsibilities

Head of Trust Solutions (15 persons) – Member of Certipost Management Team

- Key player in the creation of Certipost, the subsidiary of Belgacom and The Post. Successful achievement of project milestones in accordance with agreed scope and objectives under very aggressive schedules.
- Management of the whole eSecurity and Trust solutions department within Certipost. This department was responsible for on the one hand for (technical) product management of PKI and Trust services related solutions (including Timestamping services and Electronic Registered Mail services) and on the other hand for delivery of related complex projects among which in particular the Belgian electronic identity eID card (EUR 70 million project, PKI and smart card technologies). This included the provision of qualified certification services for the business market and for the Belgian citizen electronic identity (eID) cards.
- Senior consulting in the area of PKI and Trusted Third Party Services, in both business and technological aspects and in compliance with relevant national and international legislation.
- President of the Certipost (previously Belgacom) E-Trust Council, Policy Approval Authority instance of the E-Trust PKI (first Belgian Qualified Certification Service Provider).

- Dates (from – to)

**01, April, 96 – 31, January, 2003**

- Name and address of employer

**Belgacom s.a. (now Proximus s.a.)**

Bd du roi Albert II, 27A

1030 Brussels

Belgium

- Type of business or sector

Telecommunication and multimedia

- Occupation or position held

- Belgacom E-Trust Product Line Manager.

- Main activities and responsibilities

- Belgacom E-Trust Product Manager Expert.

- Senior Product Line Manager accountable for the study, design and realisation of the E-Trust line of Services (2000-2003).

- Set-up and development of the Belgacom E-Trust product line and management of related products (20+ people), including definition of business plans. E-Trust was the first Certification Service provider to be recognised in Belgium for the issuance of Qualified Certificates (Genesis: 1996-1998, Launch: end 1998, Qualified: end 1999).

- President of the Belgacom E-Trust Council, Policy Approval Authority instance of the E-Trust PKI.

- Dates (from – to)

**01, September, 1991 - 31, March, 1996**

- Name and address of employer

**Université catholique de Louvain (UCL)**

Unité d'Informatique

Place de l'Université, 1

1348 Louvain-la-neuve

Belgium

- Type of business or sector

Education and Applied research

- Occupation or position held

Assistant and Applied Researcher in cryptography

- Main activities and responsibilities

- Assistant at the Computer Science Department of the Université catholique de Louvain-la-Neuve (UCL).

- Teaching: Programming languages (Pascal, C, ADA), Databases.

- Research: Information Security, Cryptography, Smart Cards.

- Ph.D. student (March 94 - April 96): Secure Multi-Authority Cryptosystems.

- Research done as a founding member of the UCL Crypto Group headed by Prof. J.-J. Quisquater.

- December, 1992 – January, 1993: Research stay in the group Business and Development - Special Soft in the **Gemplus Card International** company: "Développement du kit d'environnement de la carte à micro-processeur MIMOSA"

## EDUCATION AND TRAINING

- Dates (from – to)

September, 1986 – July, 1991

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered

Université catholique de Louvain - Ecole Polytechnique  
Louvain-la-neuve, Belgium

- Polytechnic cursus. Computer Sciences specialisation.
- Master Thesis: **“Smart Cards”**. Written when visiting the *Information Security Group* at the *Royal Holloway and Bedford New College*, University of London, as part of an ERASMUS inter-university exchange program (Feb. – May, 1991), under the direction of Prof. Mike Burmester.
- March, 1994 – April, 1996: PhD research on « Secure Multi-Authority Cryptosystems ». This PhD research has been carried out at the Microelectronics Laboratory of the University of Louvain under the direction of Professor J.-J. Quisquater.

- Title of qualification awarded
- Level in national classification (if appropriate)

M.S. degree in Computer Science Engineering (Ingénieur civil en Informatique) – June 1991

Cum laude

### PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.*

#### MOTHER TONGUE

**FRENCH**

#### OTHER LANGUAGES

	ENGLISH	DUTCH	ITALIAN	SPANISH	GERMAN	РУССКИЙ ЯЗЫК
• Reading skills	Fluent	Good	Average	B1	A1	A1
• Writing skills	Fluent	Good	Average	B1	A1	A1
• Verbal skills	Fluent	Good	Average	B1	A1	A1

#### SOCIAL SKILLS AND COMPETENCES

*Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.*

#### Outstanding communication and presentation skills both written and oral

- Redaction and presentation of formal project reports to top management
- Lecturer and papers accepted at Crypto'94, UCL university, Microsoft seminars, InfoSecurity 2003, Eurosec 2004, ISSE, CRID, EEMA Conferences, ASEAN CA-CA Interoperability 2010, EU-US electronic signature Workshop (McLean, USA) in February 2012, EFPE, ENISA Trust Service Forums, CA Days, Keio university (JP), etc. (see [www.sealed.be/events.htm](http://www.sealed.be/events.htm) for complete list).
- Fluency to communicate technical messages to a non-technical audience

#### Ability to communicate/negotiate at different levels

- Proven experience to communicate/negotiate at Executive level and with highly specialised IT staff

#### Effective leadership and team building skills

- Proven experience in building and leading teams
- Conflict resolution skills and techniques
- Proven experience in providing motivation and coaching to team members
- Ability to motivate people under stress
- Ability to manage a team and to manage highly skilled IT people, a team of post sales project managers or a team of sub-contractors (developers, integrators ...). Knowledge of engineering and operations matters.

#### Problem-solving and comfortable working with detail

- Strong IT background allowing deep understanding of complex IT issues

## ORGANISATIONAL SKILLS

### AND COMPETENCES

*Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.*

### Excellent analytical skills

- Capacity to analyse complex environment

The below competences have been acquired in University assistant/research position, then in Belgacom, and Certipost, while leading in these both companies a multidisciplinary and multicultural team of product & complex project managers, and later in SEALED.

### Leadership & coordination of people

- Creation and lead of the Certipost Head of Trust Solutions (15 + persons), profit centre specialised in Trust services & solutions provisioning, complex project management and e-security consultancy. This team was first set-up and developed in Belgacom as the E-Trust product line (20+ people). E-Trust was the first Certification Service Provider to be recognised in Belgium for the issuance of Qualified Certificates.
- Key player accountable for the creation of Certipost, the subsidiary of Belgacom and The Belgian Post.

### Project definition and planning

- Solid experience of schedule and budget estimations on ICT (security) projects involving state-of-the-art technologies and complex task relationships
- Solid experience in Business Plans elaboration
- Critical path calculation, task prioritisation, etc.
- Experience of people selection (internal and external) and partner selection

### IS Audit skills

- CISA (Certified Information System Auditor) – CISA certification number: 0753217 – Date of certification: 23/02/2007.

### Project control

- Implementation of change management controls, e.g. Change Advisory Boards to manage client expectations
- Practical experience of project dashboard communication techniques
- Project management tools
- Process and procedures establishment

### Management of 3rd party suppliers

- Experience of managing and negotiating strategic contracts (development outsourcing, quality reviews, etc.)
- Extensive experience of bid management (writing and evaluating IT & Business services proposals)

### Active participation to standardisation bodies

- **EESSI Steering Group**  
Former member of the EESSI Steering Group representing Belgacom and making the liaison with EURESCOM projects about Public Key Infrastructure issues.
- **ETSI - Recognised expert active in Standardisation on eSignatures**, in particular in the following Specialist Task Forces (STF):
  - **ETSI STF 560 “Standards for machine-processable signature policy formats and the global acceptance of European Trust Services”** in charge of facilitating the global recognition and trust of EU PKI Trust Services, supporting eIDAS Regulation based on EU standards, thus enabling EU Trust services to operate not only within the internal European market, but also within the global market for trustworthy online services supporting PKI services for trust services such as web site authentication, electronic signatures and seals, code signing, secure email.  
The STF is also in charge of specifying XML and ASN.1 formats for signature policies to allow the automatic processing of the relevant aspects defined by such a policy during the creation, augmentation and validation of digital signatures.
  - **ETSI STF 425 & STF 457 “Electronic Signature Standardisation in Rationalised**

**Framework**” aiming at defining a rationalised framework for electronic signature standards allowing business stakeholders to more easily implement and use products and services based on electronic signatures. Olivier Delos was the **leader** of STF 425 and is currently the **leader** of STF 457.

[http://portal.etsi.org/stfs/STF\\_HomePages/STF425/STF425.asp](http://portal.etsi.org/stfs/STF_HomePages/STF425/STF425.asp)

[http://portal.etsi.org/stfs/STF\\_HomePages/STF457/STF457.asp](http://portal.etsi.org/stfs/STF_HomePages/STF457/STF457.asp)

- **STF 458 on “Signature Creation and Validation and Trusted Service Providers (TSP) supporting eSignatures”**. Member of this STF covering standardisation aspects of signature formats and signature format baseline profiling, certificate profiles, signature policies, CA practices and assessment of these practices. Major sponsor of the ETSI signature format baseline profiles for XAdES (XML signatures), CAdES (CMS signatures), PAdES (PDF signatures) and ASiC (signature container). Work linked to the European Commission assignment with regards to CD 2011/130/EU.
- **Editor of TS 119 612 - Trusted Lists**
- **Editor of TS 119 615 - Trusted Lists; Procedures for using and interpreting European Union Member States national trusted lists**
- **Editor of TS 119 172 - Signature Policies (Part 1, Part 4)**
- **Editor of TS 119 403-3 - Trust Service Provider Conformity Assessment; Part 3: Additional requirements for conformity assessment bodies assessing qualified trust service providers against the eIDAS Regulation requirements**
- **ETSI STF 427-QF2 on “Interoperable Qualified Certificate Profile” and ETSI STF 427-QF3 on “developing a technical specification specifying how to verify a digital signature within a given policy context”** that includes the support of Trusted Lists; both subjects being fully in line with the topics covered by ITT MARKT/2011/047/EC. Olivier Delos was a **member** of both QF2 & QF3 task forces. He was also an active **contributor** to both ETSI STF 427-QF1 on “General Guidance and Requirements on Certificate Service Provider (CSP) conformity assessment” and ETSI STF 427-QF4 on “Signature Algorithm Maintenance”.  
[http://portal.etsi.org/stfs/STF\\_HomePages/STF427/STF427.asp](http://portal.etsi.org/stfs/STF_HomePages/STF427/STF427.asp)
- Member of the ETSI Specialist Task Force (STF) 155 at the origin of the ETSI TS 101 456 technical standard, about “Policy requirements for certification authorities issuing qualified certificates”, January-June 2000.

#### **International Mutual Recognition Technical Working Group (IMRT-WG)**

Olivier is a member of the International Mutual Recognition Technical Working Group (IMRT-WG) lead by the Keio University (Japan) and that will address the technical aspects of international mutual recognition of trust services (2018 - ...)

#### **REFERENCES**

##### **Major projects references**

- **ENISA, the European Union Agency for Network and Information Security (2016 - ...)** **Supporting activities in the area of electronic identification and trust services:** Following the publication of the eIDAS Regulation (EU) No 910/2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC, a set of secondary and co-regulatory acts had to be published in order to provide technical guidance on how to implement the specific provisions of the eIDAS Regulation. In the trust services part of eIDAS, the European Commission decided to publish only the mandatory ones. ENISA was working in 2016 on a concise set of technical guidelines implementing the eIDAS Regulation in the non-mandatory articles, for voluntary use of all stakeholders, including Trust Service Providers, Supervisory Bodies and Conformity Assessment Bodies. SEALED, leading a consortium (including DLA piper UK L.L.P., TrustCore,itrust consulting and 3xA Security), is project leader, and main editor of several of these guidelines, including
  - Guidelines on initiation of qualified trust services,
  - Guidelines on supervision of qualified trust services,
  - Guidelines on termination of qualified trust services,
  - Report on recommendations Towards a harmonised Conformity Assessment Scheme for QTSP/QTS, and

- Report on assessing the Eligibility of ETSI TS 119 403-3 for referencing in an eIDAS implementing act.
- Security Framework for TSPs;
- Security Framework for QTSPs;
- Recommendations for QTSPs based on Standards;
- Assessment of QTSPs.

<https://www.enisa.europa.eu/topics/trust-services?tab=publications>

- **Governments (EU, Africa, Middle East) (2005- ...):** setting-up of national PKI (for issuing citizen and foreigner identity cards and passports).
- **Governments (EU, Africa, Middle East) (2005- ...):** setting-up of governance models and supervision schemes for the TSPs.
- **Consulting for West African Government with regards to the set-up of a National PKI for the issuance of digital certificates and providing time-stamping services in the context of eID and ePassports (2017).** Together with its local partner (main contractor), SEALED is collaborating to the set-up of a national PKI scheme supporting electronic identification, electronic signature, and electronic passports, including international recognition aspects.
- **ADOBE (2016-2017): consulting in the framework of the AATL program revision**
- **Major bank (2015 - ...):** Assessment of the legal value of diverse electronic signature tools. SEALED analyzes the solutions and the requirements for successfully passing the audit against European Regulation and standards on trust services.
- **Consultancy provided to the European Commission (DG DIGIT & DG CNECT) regarding policy and technical aspects of the implementation and the revision of the eIDAS Regulation (EU) 910/2014 on electronic identification and trust services for electronic transactions in the internal market (2014 - ...) as well as regarding Connecting Europe Facility (CEF) e-Signature and e-Delivery building blocks (2014 - ...).**
- **Setting-up of PKI in diverse EU countries and support to their supervision for the issuance of qualified certificates (2005- ...)**
- **Consulting for the European Commission (DG CONNECT) - "Study to support implementation of a Pan-European framework on electronic identification and trust services for electronic transactions in the internal market (SMART 2012/0001)" (Jan. 2013 - Dec. 2015).** Together with its partners (time.lex, PwC, Studio Notarile Genghini, Security4Biz, Nick Pope and DLA Piper, main contractor), SEALED is collaborating to a study financed by the European Commission, aiming to
  - Monitor the take-up of electronic identification and trust services in Europe including e-signatures.
  - Provide legal and technical input (including standardisation) to devise the foreseen secondary legislation of the Commission proposal for the Regulation EU n°910 / 2014 on electronic identification and trust services for electronic transactions in the internal market.
  - Propose a communication and awareness raising activities to promote the uptake of trust services in EU.
 More information on: <http://ias-project.eu>.
- **Consulting for the General Council of Europe (2014-2017):** as subcontractor of STERIA (main contractor), SEALED is collaborating to the set-up of the General Council of Europe PKI, in particular SEALED works on the design of the CAs key ceremonies and on the CPs and CPS documents establishment.
- **Consulting for the Belgian French and German speaking lawyers'bars (2014-2015):** support to the selection of an adequate professional signing and authenticating card for the lawyers.
- **Consulting for a major assurance company (2015-2016):** support to the selection of a solution for dematerialization of certain workflows requiring the qualified co-signatures of broker and customer.

- **Consulting for a Middle East Government with regards to the set-up of a CSPs Licensing Scheme for the licensing of certification service providers issuing digital certificates and providing time-stamping services (May 2012 - March 2013).** Together with its local partner (main contractor), SEALED is collaborating to the set-up of a national Licensing Scheme for the licensing of certification service providers issuing digital certificates and providing time-stamping services.
- **Support to the design of the electronic signature solutions for the Flemish government (2015- ...)**
- **Consulting for the European Commission (DG MARKT) - Studies MARKT/2011/057 (2012 - 2013), MARKT/2012/087 (2013-2014) and MARKT/2014/039 (2014-2015):** Together with its partners (Universitat Politècnica de Catalunya - UPC, Barcelona, Spain and 3xA Security AB, Sweden), SEALED is assisting the EC with regards to the analysis of Trusted Lists (TLs), as defined by Commission Decision 2009/767/EC amended by CD 2010/425/EU and by CD 2013/662/EU, and to the monitoring of the developments and enhancements of the TLManager software (see <http://joinup.ec.europa.eu/software/tlmanager/home>) and the SD-DSS signature creation and verification software (see <https://joinup.ec.europa.eu/software/sd-dss/home>) both funded by the EC.
- **Consulting for the European Commission (DG INFOS) - "Study on an electronic identification, authentication and signature policy (IAS)" (May 2011 - Nov. 2012).** Together with its partners (time.lex, PwC, Studio Notarile Genghini, and DLA Piper, main contractor), SEALED collaborated to a study financed by the European Commission, aiming to study the feasibility of a comprehensive EU legal framework for identification-related electronic credentials required to secure electronic transactions (including ancillary services). The work was undertaken in the form of four tasks with several accompanying deliverables, which may serve as building blocks for future Regulation on electronic identification and trust services for electronic transactions in the internal market. Details on <http://iasproject.eu/home.html>.
- **Consulting for the European Commission (DG MARKT) - Study MARKT/2011/047/E (Sep 2011 - Jun 2012)** conducted by SEALED and its study partners (Universitat Politècnica de Catalunya - UPC, Barcelona, Spain and 3xA Security AB, Sweden and ETSI, France) with regards to the analysis of Trusted Lists (as defined by Commission Decision 2009/767/EC amended by CD 2010/425/EU). This study aimed to provide the European Commission with assistance in:
  - Task 1. Analysing Member States Trusted List (TL). This task consisted in a semantic analysis of existing Member States implementations of TL's and identifying compliance with Decision CD 2009/767/EC amended by CD 2010/425/EU with regards to the content of the TL entries and in particular the topology of the supervised or accredited certification services (e.g. identification of the correct Sdi(s) to be listed – root or direct issuing service, required extension values for compensating lack of information of certificates, need for listing CRL/OCSP associated services, etc.) and identifying errors that inter alia lead to difficulties of using these lists for cross-border signature validation.
  - Task 2. Collecting and assessing Certification Authorities/Qualified Certificates topologies and sampling certificates.
- **Consulting for the European Commission (DG INFOS) through the Cross-Border Interoperability of eSignatures (CROBIES) study – August 2008-June 2010:** SEALED, together with Siemens and time.lex, performed for the European Commission a study analysing the actions necessary to a truly interoperable cross-border use of Qualified Electronic Signatures. The objective of the project was to analyse the requirements in terms of cross border use of electronic signatures to establish a general strategy based on common requirements aiming at cross border interoperability of qualified electronic signatures and advanced electronic signature based on qualified certificates. This study was based on and take into account the relevant provisions of Directive 1999/93/EC of 13 December 1999 on a Community framework for electronic signatures and their national implementation as well as the standardisation work based on the Directive.  
On the basis of the existing work and studies, the Study provided for each of the

defined work packages (supervision/accreditation status list of Qualified Certification Service Providers established in EU Member States, Advanced Electronic Signature reference format(s), Qualified Certificate Profile, SSCD profile, Supervision scheme common minimum requirements), an assessment of the existing situation, the common target and an implementation plan to achieve the target.

The results of the Study shall be taken into account as input for the Mandate M460 from the EC to the European Standardisation Organisations CEN, CENELEC and ETSI in the field of Information and Communication Technologies applied to electronic signatures, 7 January 2010.

The study contributed significantly to the technical specifications and annex of Commission Decision 2009/767/EC of 16 October 2009 setting out measures facilitating the use of procedures by electronic means through the 'points of single contact' under Directive 2006/123/EC of the European Parliament and of the Council on services in the internal market. OJ L 299 of 14.11.2009, p. 18 and to Commission Decision 2010/425/EU amending Commission Decision 2009/767/EC. These Decisions establish namely the mutual recognition of Advanced electronic signatures based on Qualified Certificates (AdES<sub>QC</sub>) and Qualified electronic signatures (QES) as well as the provisions for Member States' Trusted Lists.

For more information:

[http://ec.europa.eu/information\\_society/policy/esignature/crobies\\_study/index\\_en.htm](http://ec.europa.eu/information_society/policy/esignature/crobies_study/index_en.htm)

- **Consulting for the European Commission (DIGIT) regarding the set-up of an Electronic Signature Services Infrastructure (ESSI) - ongoing.** Consulting activity for the Directorate Informatics (DIGIT) regarding the *collection of the common requirements* regarding the use of electronic signatures within the European Commission in its move towards eCommission, the *definition of the ESSI conceptual framework* on both aspects of PKI certification and related services and on the required centralized eSignature creation and validation services, the *establishment of the detailed specifications for the ESSI Platform* and *advices for the eProcurement process and refinement of the specifications*.
- eSignatures **experts** in the context of the **EU-CHINA Information Society Project (2008-2009)** with the aim to provide advices on successful and interoperable eSignature implementation models.
- **"Best Practice for Applications using the [Belgian] electronic Identity Card (eID)" (2008):** Key player in the set-up of the DIS (Digital Identity Standards) initiative around the Belgian eID card, aiming to help organisations to develop trustworthy eID applications and aiming to issue a best practices standard for these purposes in association with Deloitte, Ernst & Young, Integri, Protiviti, time.lex and Microsoft.
- **European Commission Study on Standardisation Aspects of electronic Signatures (2007):** Consulting for the DG INFSO. Based on the effective use of eSignatures and related EU standards, this study analysed the "legal requirements / standardisation" model proposed by the Directive and provided the information and assessment needed for a possible review of the needs for standardisation in this context and to design new standardisation tasks that will serve in future to establishing trust in e-transactions/e-services. Recommendations have been made in terms of legal, standardization and marketing tasks, as well as quick-wins for the effective mutual recognition of Qualified Electronic Signatures. ([http://ec.europa.eu/information\\_society/eeurope/i2010/esignature/index\\_en.htm#Standardisation\\_aspects](http://ec.europa.eu/information_society/eeurope/i2010/esignature/index_en.htm#Standardisation_aspects)).
- **European Commission Study on User identification and authentication methods in e-payments (2007):** Consulting for the DG MARKT in order to provide a study on a User identification and authentication methods in e-payments. In particular, the market evolution and new perspectives around such techniques, is at the heart of the study.
- **European governmental institutions (two countries) – (2005-ongoing):** Consulting in the context of the writing and issuing of RFPs related to the provision of PKI-based certification services in the support of electronic identity cards and ICAO compliant Machine Readable Travel Documents (MRTDs).
- **International organisation in the energy sector (EU):** contribution as a sub-



contractor to the pre-study of the PKI framework for this organisation and in particular to the Certification Practice Statements principles and to the establishment of directives related to the usage of the PKI services, and in particular, the use of electronic signatures and the associated supporting trusted services.

- **Ministerie van Vlaamse Gemeenschap (BE):** contribution to the establishment of directives related to the usage of the PKI services within the Ministerie van Vlaamse Gemeenschap and in particular the use of electronic signatures and the associated supporting trusted services.
- **Belgian Federation of Notaries:** audit of compliance of the notaries' signature application with the Belgian law on electronic signature (transposition of the 1999 Directive on electronic signature).

#### **Before the creation of SEALED:**

- **Belgian electronic identity card (eID)**
  - Bid management and senior PKI consultant for the FedPKI project (Belgian Federal PKI study);
  - Project Sponsor for the set-up of the new Belgian electronic Identity (eID) cards and the related BelPIC project (Registration Authorities network). Successful achievement of project milestones in accordance with agreed scope and objectives under very aggressive schedules. Budget: 16 Mio€
- **Brussels Order of French Lawyers, Belgian National & European Commission**

For all these prestigious customers, E-Trust provided customised Certification Services allowing them to benefit from dedicated certificate profiles, and customised issuing procedures in which they can take an active part as Registration Authority.
- **e-Government solutions**

Establishment of Certipost E-Trust as an authorised supplier of (qualified) digital signatures allowing owners to access to Belgian Federal Service Finance and National Social Security e-government applications requiring implementation of digital signatures (such as Dimona, DMFA, Intervat, FinProf, NCTS, etc.).
- **Carenet network – Healthcare (Belgium)**

In the healthcare sector, E-Trust were at the origin of the provision of the secure communication software for the Carenet network underlying all automated electronic communications between Belgian hospitals and Belgian Insurance Organisations.
- **LuxTrust (Luxembourg)**

As direction sponsor and senior consultant, main contributor to the study aiming to identify the possibilities to create, in the Grand-Duchy of Luxembourg, a certification services centre that complies with the specific needs of both public and private sectors related to the e-identity provisioning, securing of information exchanges, electronic commerce and electronic signature.
- **Dematerialisation**

In this area, Olivier has driven the complete realisation of the electronic Registered Mail platform of Certipost introducing business implementation of signature policies.
- **European Commission IDA-2001 PKI II (Framework contract ENTR/01/032-IDA-2001/PKI II)**
  - *Certification Service Provision for Administrative Networks:*

The scope of the project was to provide certification services for Close User Groups within the European Commission Administrative Networks, mainly supporting the secure exchange of e-mails, and as a generic service within the IDA programme.
  - *European Commission IDA Bridge Gateway CA Pilot:*

The scope of the “European IDA Bridge/Gateway CA”, under the IDA II program, is to supporting the interoperability within the electronic communications between the different European DGs and Member State Administrations. As within the European Administrations, different PKI hierarchies exist, the aim of the European IDA Bridge/Gateway CA is more specifically to ensure that these different PKI hierarchies get interoperable with each other, as well on legal, procedural and technical levels.

The chosen method to obtain this interoperability under the European IDA

Bridge/Gateway CA is the usage of so-called "Trust Service Provider Lists" (TSL) according to the ETSI TS 102 231 framework.

Olivier was main contributor to the writing of the Policy scheme and managerial structure of the proposed Bridge Gateway CA scheme, as well as the author of most of the recommendations.

- **European Project OPARATE**

This project was conducted as part of a European Commission program (ETS) to assist in the realisation of practical pan-European information security solutions. The project was looking at operational and architectural aspects of so-called Trusted Third Party services. These are services provided to support users in exchanging information securely between each other. Belgacom was acting as a TTP service provider throughout the OPARATE main field trial dedicated to digital signatures. Olivier Delos was the OPARATE project leader when in charge at Belgacom.

### **Other organisational skills**

- Result driven and quality minded
- Ability to manage very complex situations at high level
- Able to think abstract and translate the abstract matter to concrete
- Combination of a highly requesting job with a family life with two children

### TECHNICAL SKILLS AND COMPETENCES

*With computers, specific kinds of  
equipment, machinery, etc.*

**Certified Information Systems Security Professional (CISSP):** CISSP certification number 82518 – Date of certification: 01/12/2005. Current status: valid.

**Certified Information System Auditor (CISA):** CISA certification number: 0753217 – Date of certification: 23/02/2007. Current status: valid.

### **Practical expertise of IT security technologies and techniques**

- More than twenty-five (25+) years of strong expertise in ICT and e-security business, technologies & technical aspects, including all related domains such as telecommunications, IT technology and Internet, especially PKI based & cryptography.
  - Public Key Infrastructures (PKIs), Timestamping, cryptography, PKCS standards, S/MIME messaging, smart cards technologies, CryptoAPI, Hardware Security Module
  - Legal implications and business implementations of digital signature (Qualified signatures, Qualified certificates, SSCD, long term e-proof validity, etc.) and cryptography
- Twenty (20) years of practical experience in the field of consulting services in ICT security for eGovernment applications

### **Solid understanding of current e-business technologies**

- SSL/TLS, LDAP, OCSP, Smart Cards, TSL (trusted lists), etc.

### **Solid understanding of e-business supporting infrastructure**

- Windows NT/2000, Unix, TCP/IP.
- Databases, SQL, Oracle.

### **Other competences**

- Excellent synthesis skills: ability to explain complex matters in an easy and understandable manner and to write it as answer to RFPs.
- Excellent and in-depth understanding of technical evolution.
- Practical experience in the study and analysis of legislation related to ICT security at European and international level, in the context of implementing related business-related services (certification services, timestamping services, electronic registered mail services, e-Procurement & e-Tendering services):
  - Regulation EU n°910 / 2014 on electronic identification and trust services for

- electronic transactions in the internal market
- European Directive on Electronic signatures (1999/93/EC)
- European Directive on Data Privacy (GDPR)
- European Directive on e-Invoicing
- European Directive on e-Procurement
- Major contribution to the technical specifications and annex of Commission Decision 2009/767/EC of 16 October 2009 setting out measures facilitating the use of procedures by electronic means through the 'points of single contact', and its amendments through CD 2010/767/EC and CD 2013/662/EU.

## OTHER SKILLS

### AND COMPETENCES

*Competences not mentioned above.*

- National Judge at the Belgian French speaking League of Athletics (LBFA) since 2015 – previously regional Judge since 2012.
- World Para Athletics Technical Official Level 2 (NTO expert).
- Former Chairman of the Board of Directors of the “Ateliers du Léz’Arts – Centre d’Expression et de Créativité”, Genappe, Belgium (2010-2014)
- Sculpture, photography, writing (children literature).
- Sportive (running, squash, speed sail).
- Bee-keeping, entomology.
- Home brewing.
- Holder of a Red Cross European First Aid Certificate.

## DRIVING LICENCE(S)

In order for cars driving all over Europe

## ADDITIONAL INFORMATION

### Conformance to minimum requirements for “Senior Consultant” profile

- University degree in computer sciences and complement research in cryptography
- 20+ years strong experience in conducting projects in PKI based ICT security, eGovernment security at application level, on European and on international level,
- Very good and deep understanding of the technical, legal and organizational issues related to eGovernment, *PKI*, *eSignatures*, *electronic trust services*, electronic identity cards, ICAO compliant travel documents,
- Very good communicator, and of the English language, while French mother tongue.

### Publications and Lectures

#### *PKI Documentation*

- (co-)Author of numerous Certificate Policies & Certificate Practices Statement edition and maintenance
- (co-)Author of tutorials documents on PKI (technical and legal aspects) and trainer on these topics

#### *Latest Lectures*

- See [www.sealed.be/events.htm](http://www.sealed.be/events.htm).

#### *Publications*

- See [www.sealed.be/events.htm](http://www.sealed.be/events.htm) for latest ones.

#### *Scientific Talks*

- See [www.sealed.be/events.htm](http://www.sealed.be/events.htm) for latest ones.

## ANNEXES

N.A.