EUROPEAN CURRICULUM VITAE FORMAT

PERSONAL INFORMATION

Name	**LACROIX SYLVIE, DOROTHÉE, GEORGETTE**
Address	**2, RUE MONSEIGNEUR DECHAMPS, 7540 RUMILLIES - BELGIQUE**
Telephone	**+32 (0)4 77 78 79 75**
Fax	
E-mail	**sylvie.lacroix@sealed.be**
Nationality	Belgian
Date of birth	07, June, 1969

CERTIFICATIONS

CISA, CSFX

WORK EXPERIENCE

• Dates (from – to)	**01, July, 2005 - now**
• Name and address of employer	**SEALED s.p.r.l.** Rue Monseigneur Dechamps, 2 7540 Rumillies Belgium
• Type of business or sector	Information security consulting
• Occupation or position held	Managing Partner
• Main activities and responsibilities	• Senior Information Security Consultant

- Policies & practices for trust services provisioning, Design and Audit preparation
- Digital proofs & eSignatures, Time-stamping
- Electronic identity & authentication management (eID credentials and ICAO MRTDs and passports)
- PKI & trust services
- Long term preservation & archival

• Business Development Manager

• Dates (from – to)	**01, February, 2003 – 01, July, 2005**
• Name and address of employer	**Certipost s.a. – n.v**. Centre Monnaie 1000 Brussels Belgium

• Type of business or sector	Facilitation & Certification of electronic Communication
	• Certification Service Provider (E-Trust Qualified CSP, CSP for Belgian electronic identity eID Cards)
	• PKI related complex projects
	• ASP platform of eServices : eDelivery, eInvoicing, eBilling, eSupply, eWorker, eRegistered Mail
• Occupation or position held	Trust Solutions and PKI Projects Unit Manager *(10 persons)*
• Main activities and responsibilities	• 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.
	• Belgian eID Cards Certification Services Program Manager
	• Complex projects team management in the area of PKI and Trusted Third Party Services.
	• Bid management
	• 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.

• Dates (from – to)	**01, April, 97 – 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 Project /Product Managers Team Manager
	• Belgacom E-Trust Product Manager Expert.
• Main activities and responsibilities	• Key player in the set-up of the Belgacom (main Belgian TelCo) E-Trust line of Services realization (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).
	• Bid management, in particular of Belgacom's proposal for the Belgian electronic ID card (eID card) (EUR 70 millions project, PKI and smart card technologies).

• Dates (from – to)	**01, July, 1994 - 31, March, 1997**
• Name and address of employer	**École Polytechnique, Université catholique de Louvain (UCL)**
	Telecommunication and Microelectronics laboratories
	Place de l'Université, 1
	1348 Louvain-la-neuve
	Belgium
• Type of business or sector	Applied research
• Occupation or position held	Research assistant
• Main activities and responsibilities	• Research: Information Security, Cryptography, Smart Cards (research done as a founding member of the UCL Crypto Group headed by Prof. J.-J. Quisquater)
	• Ph.D. student (1995 - April 97): « Cryptographic Protocols dedicated to the Securisation of Multimedia Services »
	• Teaching microelectronics tutorials
	• Working as consultant for the European projects RACE ACCOPI (**A**ccess **C**ontrol and **CO**pyright **P**rotection for **I**mages) and ACTS OKAPI (**O**pen **K**ernel to **A**ccess **P**rotected **I**nteroperable Services).
	o Adviser on the role of Trusted Third Parties Architectures for Information Security products support.
	o Responsible for the standardization of research regarding Trusted Third Party services

EDUCATION AND TRAINING

• Dates (from – to)	**September, 1988 – July, 1994**

• Name and type of organisation providing education and training	Ecole Polytechnique, Université catholique de Louvain Louvain-la-neuve, Belgium
• Principal subjects/occupational skills covered	• Polytechnic cursus. Electronic and telecommunication specialisation. • Master Thesis: « Study of gamma radiation effects on a SOI[1]bipolar technology devoted to spatial usage». In collaboration with Alcatell-SDT (now Thales Alenia Space Belgium). Management orientated lectures are included in her personal cursus. • September, 1995: Allowed as PhD candidate on « Cryptographic Protocols dedicated to the Securisation of Multimedia Services ». This PhD is carried out at the Microelectronics Laboratory of the University of Louvain under the direction of Professor J.-J. Quisquater Complementary • Continued formation for engineers on *« Information Security ».* • TCP / IP, Firewall , security technologies seminars
• Title of qualification awarded	Master in applied science (**Ingénieur civil en électricité**) ; Microelectronics and Telecommunications orientations, June 1994
• Level in national classification (if appropriate)	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
• Reading skills	excellent
• Writing skills	excellent
• Verbal skills	excellent
	DUTCH
• Reading skills	excellent
• Writing skills	correct
• Verbal skills	good

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 at European Commission, University, several ISSE and EEMA annual Conferences, European Forum on eSignatures, RSA Security, ENISA and EFPE conferences for the major ones.
• 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
• Strong written and verbal communication skills; excellent listening and presentation skills
• Strong negotiation skills both with external and internal customers/partners

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[1] **S**ilicium **O**n **I**nsulator

Effective leadership and team building skills

- Proven experience in building and leading teams
- Conflict resolution skills and techniques
- Proven experience in providing motivation to project 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

Excellent analytical skills

- Capacity to analyse complex environment

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.

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

Leadership & coordination of people

- Creation and lead of the Certipost Professional Service team (9 + persons), profit centre specialised in complex project management and e-security consultancy.
- Creation and lead of the Certipost eID Unit (electronic identity card) (4 + persons).
- Senior Project Manager key player accountable for the creation E-Trust line of Services realization (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 is namely a Certificate Service provider, first one 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.
- ETSI STF leader (Trust Services for Signature Validation, Identity Proofing STFs)

Project definition and planning

- Creation and Implementation of a Project Management Methodology dedicated to complex projects (CertiComPro), (ongoing project controls, risk management, definition of project communication plans, …).
- Solid experience of schedule and budget estimations on IT projects involving state-of-the-art technologies and complex task relationships
- Critical path calculation, task prioritisation, etc.
- Experience of people selection (internal and external)

IS Audit skills:

- CISA (Certified Information System Auditor) – CISA certification number: 0754011 – Date of certification: 03/03/2007.
- CSXF (Cyber Security Certification) certification number: 2016-379078.

Project control

- Implementation of change management controls, e.g. Change Advisory Boards to manage client expectations
- Definition of escalation procedures in formal environments
- Project tracking and control techniques, e.g. budget follow-up, etc.
- Practical experience of project dashboard communication techniques
- Project management tools, e.g. MS Project
- 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
- Active participation to DAVIC[2] (world-wide pre-standardisation body): chairperson of the Security working group.
- **ETSI ESI STFs 524 and 588** Special Task Force leader (Trust Services for Signature Validation STF and Identity Proofing STF)
- **ETSI ESI, the eSignatures technical Committee from ETSI.** Sylvie was a member of both ETSI Specialists Task Forces (STF) STF427-QF1 on *"General Guidance and Requirements on Certificate Service Provider (CSP) conformity assessment"*, ETSI STF427-QF4 on *"Signature Algorithm Maintenance"* and STF438 on *"Guidance on TS 102 042 for CAB Forum Baseline Certificates"*.
  She is now member of STF 457 (Apr 2013-Dec 2015) working on Electronic Signature Standardisation in Rationalised Framework in the context of European Commission Mandate M/460 and of STF 458 (Apr 2013-Dec 2015) on "Signature Creation and Validation and Trusted Service Providers (TSP) supporting eSignatures"
- **Editor of EN 319 411-2 -** *Policy and security requirements for Trust Service Providers issuing certificates; Part 2: Requirements for trust service providers issuing EU qualified certificates;* **of TS 119 441 -** *Policy and security requirements for Trust Service TSP providing signature validation services.*
- **Co-editor of ETSI EN 319 401, EN 319-411-1, TS 119 101, TS 119 300**
- **CEN: editor** of *CEN TR_419040 and _419030 –Rationalised structure for electronic signature standardization — Guidelines for citizens, and — Guidelines for PMEs.*

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 three children**

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, in the framework of the setup of the European Regulation on trust services, e.g. assessment of standards eligible to be listed in implementing acts.
- **Governments (EU, Africa, Middle East) (2005- …):** setting-up of national PKI (for issuing a.o. citizens and foreigners identity cards and passports).
- **Governments (EU, Africa, Middle East) (2005- …):** setting-up of governance models and supervision schemes for the TSPs.
- **European Commission (DG CONNECT and DIGIT) (2019 - …):** expert for the EBSI project, the European Blockchain Service infrastructure, responsible for the trust framework definition.
- **ETSI: active expert in eSignature & trust services standardization** in particular in the context of the execution of Mandate M460 (expert of 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"*, their successor; STF 458, STF leader of STF 524 on signature validation) and STF leader of STF 588 on Identity Proofing.
- **Major bank (2015 - …):** assessment of the legal value of diverse electronic signature tools. SEALED analyzes the solutions and the requirements for successfully pass the audit against European Regulation on trust services.
- **ADOBE (2016-2017):** consulting in the framework of the AATL program revision
- **Chamber of Commerce offering PKI services (EU member state) (2016- 2018):** Consulting. SEALED is supporting the organization to up-date its PKI in the view to successfully pass the audit against in the framework of the new European Regulation on

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[2] **D**igital **A**udio **VI**sual **C**ouncil, successor of MPEG council.

trust services.

- **General Council of Europe (2014-2017):** as subcontractor of STERIA (main contractor), SEALED collaborated 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.
- **Belgian French and German speaking lawyers'bars (2014-2017):** support to the selection of an adequate professional signing and authenticating card for the lawyers.
- **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.
- **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
  - o Monitor the take-up of electronic identification and trust services in Europe including e-signatures.
  - o 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.
  - o Propose a communication and awareness raising activities to promote the uptake of trust services in EU. More information on : http://ias-project.eu.
- **European Commission (DG MARKT) - Study MARKT/2011/057 (2012 - 2013) and MARKT/2012/087 (2013-2014).** Together with its partners (Universitat Politècnica de Catalunya - UPC, Barcelona, Spain and 3xA Security AB, Sweden), SEALED is collaborating with regards to the analysis of Trusted Lists (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 Trusted List Manager 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.
- **A Middle East Government with regards to the set 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.
- **Flemish government (2015- …)**: support to the design of the electronic signature solutions (creation, validation and preservation).
- **European Commission (DG INFSO) - "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 EU legislation. More info on http://iasproject.eu/home.html.
- **European Commission (DG MARKT) - Study MARKT/2011/047/E** 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:
  - o 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.

- o Task 2. Collecting and assessing Certification Authorities/Qualified Certificates topologies and sampling certificates.

- **European Commission (DG INFSO)** 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$_{QC}$) 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

- **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.

- **Co-author of the book "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).

- **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, Project Manager and Senior PKI consultant for the FedPKI project (Belgian Federal PKI study);
- Program manager for the set-up of the **Belgian electronic Identity (eID) cards PKIs**. 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 government and banks)**
  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, Sylvie has driven the complete realisation of the eBidding platform together with EBP and Belgacom.
- *European Commission IDA-2001 PKI II (Framework contract ENTR/01/032-IDA-2001/PKI II)*
    o *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.

- o *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 RACE ACCOPI** (*Access Control and COpyright Protection for Images:* consultant

- **European project ACTS OKAPI** (*Open Kernel to Access Protected Interoperable Services):* Adviser on the role of Trusted Third Parties Architectures for Information Security products support
  - o *Active participation to DAVIC[3] (world-wide pre-standardisation body):* chairperson of the Security working group.

TECHNICAL SKILLS AND COMPETENCES *With computers, specific kinds of equipment, machinery, etc.*	**Certified Information System Auditor (CISA) :** CISA certification number: 0754011 – Date of certification: 03/03/2007. **CSXF (Cybersecurity Fundamentals):** certification number: 2016-379078

Practical expertise of IT security technologies, techniques and legal frameworks

- More than twenty (25+) years of strong expertise in ICT and e-security technologies & technical aspects, including all related domains such as telecommunications, IT technology and Internet, **especially PKI based & cryptography.**
  - o Public Key Infrastructures (PKIs), cryptography, PKCS standards, S/MIME messaging, smart cards technologies, CryptoAPI, Hardware Security Module
  - o Legal implications of digital signature (Qualified signatures, Qualified certificates, QSCD, etc.) and cryptography
- 15+ years of practical experience in the field of consulting services in ICT security for eGovernment applications
- **Qualified Electronic Signature and trust services Implementation Controls and pre-audits**: in particular the implementation of qualified trust according to the eIDAS Regulation and the ETSI standards.

Solid understanding of current e-business technologies

- PKI, SSL, TSL, LDAP, OCSP, Smart Cards, blockchain, identity proofing, TCP/IP, etc.

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 level, in the context of implementing related business related services (certification services, timestamping services, electronic registered mail services, e-Procurement & e-Tendering services):
  - o Regulation EU n°910 / 2014 on electronic identification and trust services for electronic transactions in the internal market

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[3] **D**igital **A**udio **VI**sual **C**ouncil, successor of MPEG council.

o European Directive on Electronic signatures (1999/93/EC)
o European Directive on Data Privacy
o European Directive on e-Invoicing
o European Directive on e-Procurement
o Directive 2006/123/EC of the European Parliament and of the Council on services in the internal market (major contribution 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')

OTHER SKILLS
AND COMPETENCES
Competences not mentioned above.

- Very sportive (rowing, swimming, skiing)
- Literature addict

DRIVING LICENCE(S)

In order for cars driving all over Europe

ADDITIONAL INFORMATION

Conformance to minimum requirement for "Senior Consultant" profile

- University degree in micro-electronics and complement research in cryptography
- 20+ -years strong experience in conducting projects in ICT security, eGovernment security at application level, and on international level
- Very good and deep understanding of the technical, legal and organizational issues related to eGovernement
- 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.

Publications

- See www.sealed.be/events.htm for latest ones.

Scientific Talks

- See www.sealed.be/events.htm for latest ones.

ANNEXES

N.A.