



Stephen Wilson **health sector profile**

Stephen Wilson is a richly skilled researcher, analyst and management consultant, with a rare blend of expertise in privacy, digital identity, cyber security, policy and governance across all levels of the health sector. He bridges and knits together technology, business and governance, with sophisticated but practical consulting on the implementation of e-health security and privacy solutions. His career spans 24 years in ICT and R&D management, in Australia and the USA. For most of that time he has been involved in e-health; in the past 15 years has specialised in cyber security and privacy.

Stephen has long been involved in developing public policy for authentication and privacy. He was an invited member of the Australian Law Reform Commission Developing Technology Advisory Sub-committee (2007-08) working on a major national review of privacy law. He was a Ministerial appointment to the National Electronic Authentication Council (1998-2001). He currently sits on Standards Australia Health Informatics Committee IT/14/04 and is a foundation member of the Australia-New Zealand chapter of the International Association of Privacy Professionals (iapp-ANZ). His recent health sector clients include HealthSMART, NEHTA, Queensland Health, SA Health, and Medicare Australia.

Stephen has authored numerous submissions to government inquiries on health & human services topics including the draft National Health Privacy Code (2003), the Privacy Act inquiry (2005), and the Health & Welfare Access Card (2007). He appeared before the Senate Finance and Public Affairs Committee reviewing the Access Card legislation. He has a substantial body of publications including academic and peer-reviewed papers on electronic health records, health identifiers and privacy.

Career summary

2004- Lockstep Group – Managing Director & Principal Consultant
2001-03 SecureNet – Chief Security Specialist & Professional Services Manager
1999-01 PricewaterhouseCoopers beTRUSTed – Director of Strategy & Policy
1997-99 KPMG Consulting – Associate Director, Certification Authority
1995-97 Security Domain – Software Development Manager
1993-95 Telectronics Pacing Systems (USA) – Head of Software Engineering
1992-93 Telectronics Pacing Systems (USA) – International Product Manager
1987-92 Telectronics Pacing Systems – Section Head, Team Leader, Senior Engineer
1986-87 CSIRO Division of Wool Technology – Experimental Scientist.

Health sector experience

- **NEHTA 2011:** undertook Threat & Risk Assessment of electronic signatures, in the context of the National E-Authentication Framework, for a comprehensive range of e-health use cases, in order to inform the NEHTA's e-signature solution design
- **Queensland Health 2010-11:** Assisting Smartnet develop a new privacy tools for a number of multiple e-health projects, and undertake a Privacy Impact Assessment

- **SA Health 2008-11:** Long term identity management adviser: reviewed smartcard & biometric pilots; PKI subject matter expert in enterprise wide identity management strategy; developed Certificate Policy & Certification Practice Statement and User Ts&Cs for enterprise PKI, designed and supervised Root key signing ceremony
- **NEHTA/NATA eHealth IT Testing Working Group 2010-11:** helping NEHTA plan and implement a national accreditation scheme for health software testing
- **Victoria Department of Health HealthSMART Program 2009:** Privacy Impact Assessment (PIA) for a state-wide integrated Patient and Client Management System
- **Joint Standing Committee on Health Informatics Standards (JSCHIS) 2009:** Strategic review of eHealth standards development priorities to inform national planning
- **NEHTA 2007:** developed the business case for the proposed national authentication service for healthcare providers (“NASH”) and a streamlined procurement strategy
- **groupNetwork 2009:** developed a comprehensive strategic security plan for this new messaging and rostering service for medical specialists
- **Australian General Practice Network 2006:** privacy and security expert assisting development of the Divisions National Information Management Plan
- **Medicare Australia Health eSignature Authority (HeSA), 2005-06:** developed new *Known Customer* digital certificate issuance processes for healthcare professionals, and advised on rollout of smartcard based digital credentials at a large public hospital
- **NSW Human Services Better Service Delivery Programme 2005:** security policy review and upgrade, security architecture review
- **Ozdocsonline 2002-05:** Project Manager for a Commonwealth ITOL funded project to develop a new online care planning tool; Principal security adviser for a GP-patient portal and general practice B2B platform
- **Medicare Australia HeSA 2002-03:** Technical Account Manager and Principal Consultant on PKI business processes and Gatekeeper accreditation
- **Northern Sydney Area Health Service 2003:** PKI strategy for web-based access to obstetric patient records
- **NSW Health 2001:** Subject matter expert on authentication in developing a new Security Policy for electronic personal health information
- **National Health Privacy Code 2003:** wrote a comprehensive response to the Department of Health and Ageing’s draft privacy code.
- **Patented health PKI registration process 2002:** Australian patent 743570
- **Standards Australia Health Informatics 2004-10** Committee IT-14-4
- **National Electronic Authentication Council 1998-2001** (member)
- **Privacy Commissioner’s PKI Reference Group 2001** (member)
- **Medical device industry USA 1992-1995:** three years in the USA with leading pacemaker firm Telectronics, in R&D management, regulatory affairs, product marketing, clinical study support, and QA
- **Medical device software development 1987-1992:** four years with Telectronics in Sydney working in implantable defibrillator software development and R&D management
- **Implantable defibrillator patents** (US patents 5,144,947; 5,251,625 and 5,292,339).

Selected health related publications and presentations (peer reviewed papers in bold)

See also www.lockstep.com.au/library/ehealth.

- *A Fresh Look at 'Balancing' Patient Privacy & Clinical Safety*, Managing Patient Confidentiality and Information Governance, Melbourne, August 2011
- *A bigger threat to patient privacy when doctors use Facebook E-Letter* to Journal of Medical Ethics, 20 Dec 2010 http://jme.bmj.com/content/early/2010/11/07/jme.2010.036293/reply#medethics_el_3625
- *When worlds collide: Managing privacy in joined-up service & payment environments*, Human Services Delivery & Payment Reform Summit, Canberra, 2010
- *Anonymity & Pseudonymity in eResearch via smartcards and Public Key Infrastructure* **eResearch Australasia conference, Manly (Sydney), 2009**
www.eresearch.edu.au/wilson2009
- *Smartcards and Prescription Shopping* (Lockstep "Babystep" No. 7) 2007
- *Smartcards and Provider Fraud* (Lockstep "Babystep" No. 6) 2007
- *A new manifesto for smartcards as national information infrastructure*, 5th **Homeland Security Conference Canberra, 2006**
http://www.lockstep.com.au/library/smartcards/a_new_manifesto_for_smartcard
- *Smartcards and PKI at Medicare Australia* 2006 <http://tinyurl.com/y9qy8u6>
- *Patient Privacy and Security – Not a zero sum game!* **Wilson, Connolly & Denney-Wilson, Journal Australian Epidemiology Assoc. V12.1, 2005**
- *A novel application of PKI smartcards to anonymise Health Identifiers* **AusCERT2005 Academic Refereed Paper Stream May 2005**
<http://conf.isi.qut.edu.au/auscert/proceedings/2005/wilson05novel.pdf>
- *PKI State of Play* Argus Foundation Forum, Canberra, 2004
www.lockstep.com.au/library/ehealth/pki_state_of_play/argus_forum_pki.pdf
- *Privacy and security panel* AFR Health Congress, Sydney, 2004
- *Secure web-based services linking patients and GPs* AFR Health Congress, Sydney, 2004
- *PKI without tears* **American Bar Association eBlast, 2003**
[includes detailed modelling of a hypothetical Healthcare PKI]
- *Ozdocsonline - A Case Study in Security & Privacy for a Doctor-patient Web-based Communication Tool* **HIC/RACGP Computing Conference conference, Sydney, 2003.**
- *PKI in e-health* New Zealand Department of Health briefing, Wellington, 2003
- *PKI panel discussion* Health Informatics HIC2002, Canberra, 2002
- *A private sector perspective on PKI* Health Informatics HIC2001, Canberra, 2001
- *Electronic Trust in Online Healthcare* ISSA World Market Series Business Briefing on Global InfoSecurity, 2001
- *Electronic medical documentation of the future* 8th Annual Malaysian National Healthcare Conference, Kuala Lumpur, 2000
- *Dictionary of Cardiac Pacing, Electrophysiology and Arrhythmias* (major contributor) edited by Hayes et al, Peritus 1993.