



Stephen Wilson is a leading authority on privacy and identity security. His privacy experience is founded on many years working in the sensitive sectors of healthcare and government, and from original research he has undertaken on the complex relationship between privacy and electronic security. Stephen has pioneered a unique *privacy engineering* technique that generates tailored, practical guidance for information architects, designers and project managers so they can build privacy controls into their systems at the formative stages of development. See also <http://lockstep.com.au/about/privacy>.

Selected privacy consulting engagements

- **Dept of Primary Industries Advanced Metering Infrastructure 2011:** Privacy Impact Assessment of the Victorian smart electricity meter program, involving extensive consultation with consumer groups, regulators, electricity distributors and retailers.
- **BusinessLink Pty Ltd 2011:** PIA for a new Software-as-a-Service offering from this outsourced service provider to NSW Government.
- **Queensland Health 2010-11:** Assisting Smartnet Pty Ltd develop a suite of privacy tools for multiple e-health projects; conducted a PIA for a new EHR system
- **Victroads 2009-10:** Assisted Salinger Privacy with a major two stage PIA of the new *RandL* platform, consolidating registration and licensing processes for three agencies.
- **Dept of Foreign Affairs & Trade Australian Passport Office 2010:** PIA to help inform the design of a new online passport application system.
- **HealthSMART Victoria 2009:** PIA on the proposed implementation of an integrated Patient and Client Management System across diverse health agencies in Victoria.
- **Australia Post 2009:** PIA on the new “Trust Based Services” program.
- **Commonwealth Government Agency (confidential) 2009:** preliminary privacy controls assessment of a new piece of privileges management infrastructure.
- **Australia Post 2008:** developed a comprehensive *Trust & Privacy Strategy* for Australia Post’s R&D area investigating opportunities in digital communications; undertook pre-design stage PIA; and developed detailed *Privacy Engineering Guidelines* to inform architecture, identity management and policy.
- **Victorian Department of Justice 2007:** developed innovative new *Privacy Engineering Guidelines* for database schemas, audit logs and web form design.
- **Office of the Privacy Commissioner 2007:** designed and delivered a half day customised training course, *Smartcard Technology for Privacy Policy Workers*.
- **Australian Divisions of General Practice National Info Management Plan 2006:** Privacy and Security subject matter expert assisting with strategic planning and information architecture for national exchange of patient data.
- **NSW Govt Office of ICT Better Service Delivery Program 2005:** reviewed the privacy and security provisions of the multi-agency client messaging system *Referral-Link*.
- **CSIRO 2005:** helped review CSIRO’s new *Health Data Integration and Privacy Preserving Analytics* including a literature review of privacy in medical research.

Original research into privacy

- **“Privacy Engineering”**: While it is fashionable to affirm that ‘privacy is not a technology issue’, Stephen has researched how privacy is impacted in all sorts of ways by IT practices. Lockstep’s privacy consulting is informed by this work on multi-disciplined ways to build privacy in at the formative stages of IT projects.
- **Smartcards and Privacy**: a major focus of Lockstep Consulting is privacy enhancing properties of smart ID technologies, for anonymity, de-identification and the control of phishing, pharming and spam; see publications below.
- **Mapping the NPPs onto IT functions**: undertook a major research study into the relationship between privacy and information security, resulting in a unique and comprehensive mapping of the National Privacy Principles onto IT management issues; see *Mapping Privacy requirements onto the IT function* below.
- **Biometrics**: published several critical analyses of biometrics, including *Will Biometrics Obsolete PKI?* (2001) and *Comparison of Authentication Technologies in E-business* (2001); see www.lockstep.com.au/library/biometrics.

Professional activities

- **Australian Law Reform Commission 2007**: invited member of the Emerging Technologies Sub-Committee convened by the ALRC as part of its review of the Privacy Act, providing advice on issues including smartcards, biometrics and RFID.
- **Senate Inquiry into the Access Card Bill 2007**: invited to appear before the Senate Finance and Public Administration Committee reviewing the smartcard legislation, and there argued the case for greater utilisation of smartcards’ privacy safeguards; see www.aph.gov.au/senate/committee/fapa_ctte/access_card/submissions/sub45.pdf and www.aph.gov.au/hansard/senate/commtee/S10026.pdf.
- **Privacy Commissioner’s PKI Reference Group 2001**: invited member of an experts group convened by the Office of the Federal Privacy Commissioner to review and refine the Office’s new publication *Guidelines for agencies using PKI to communicate or transact with individuals*.
- **Senate Inquiry into the Privacy Act 2005**: Lockstep made an in-depth 23 page submission focussing on smartcards and biometrics, to the Senate Legal and Constitutional Committee inquiry into the Privacy Act; see www.aph.gov.au/senate/committee/legcon_ctte/privacy/submissions/sub11.pdf.
- **Standards Australia’s Nominated Privacy Expert 2005-10**: representative on ISO Technical Committee 68/SC 6 on Financial Services Security.
- **National Health Privacy Code consultations 2003**: wrote a comprehensive response to the Commonwealth’s Department of Health and Ageing draft privacy code; see http://lockstep.com.au/library/privacy/national_health_privacy_code.

Selected privacy related publications and presentations

See also <http://lockstep.com.au/library/privacy>.

- *Privacy problems and Facebook* Anna Johnston & Stephen Wilson, Precedent, Issue 103, March-April 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
- *More trouble with Facebook* S. Wilson & A. Johnston, Privacy Law Bulletin, Oct 2010
- *Public and yet still private* Online Banking Review, June 2010
www.bankingreview.com.au/2010/06/public-yet-still-private.html
- *Google, wifi and the gulf between IT and privacy*, International Association of Privacy Professionals, Aus-NZ Chapter (iappANZ) Member Bulletin No. 12, May 2010
- *Patient privacy: polarising or possible?* iappANZ Member Bulletin No. 10, March 2010
- *An uphill battle for online privacy* Sydney Morning Herald, Opinion column, 17 Feb 2010; <http://smh.com.au/opinion/society-and-culture-o8rp.html>
- *Anonymity & Pseudonymity in eResearch via smartcards and Public Key Infrastructure* eResearch Australasia conference, Manly (Sydney), November 2009
www.eresearch.edu.au/wilson2009
- *Reflections on technology and privacy*, Inaugural iappANZ Conference, Sydney, August 2008 www.lockstep.com.au/library/privacy/inaugural-iappanz-privacy-con/lockstep-iappanz-privacy-conf
- *"Privacy Engineering" - A fresh proactive approach to privacy compliance*, Australian Information Security Association Annual Seminar Day, Sydney, Nov 2007; see www.lockstep.com.au/library/privacy/privacy_engineering_guideline
- *Patient Privacy and Security – Not a zero sum game!* Wilson, Connolly and Denney-Wilson, Journal of the Australian Epidemiology Association V12.1 April 2005
www.lockstep.com.au/library/privacy/patient_privacy_and_security
- *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>
- *Privacy as constraint, or privacy as strategy variable?* Letter to the editor, Privacy Law & Policy Reporter Vol 10.5, 2003
- *Mapping Privacy requirements onto the IT function* Privacy Law & Policy Reporter Vols 10.1 & 10.2, 2003 www.austlii.edu.au/au/journals/PLPR/2003/20.html
- *Privacy positive aspects of public key infrastructures* Privacy Law & Policy Reporter, Vol 5. No. 10, 1999 <http://bar.austlii.edu.au/au/journals/PLPR/1999/26.html>
- *Is Security and Privacy a Zero Sum Game?* Online Banking Review, August 2005
- *Telltale prints* Letter to the editor, New Scientist 14 August 2004
www.newscientist.com/article/mg18324604.200-telltale-prints.html
- *Ozdocsonline - A Case Study in Security & Privacy for a Doctor-patient Web-based Communication Tool* 12th Annual RACGP Computing Conference, Sydney 2003
- *Problems in Mandating Strong Personal EOI in PKI*; APEC TEL 23 Canberra, 2001.