



Stephen Wilson health sector profile

Stephen Wilson is a researcher, analyst, innovator and consultant, with specialist expertise in privacy and cyber security across all levels of the health sector. He bridges technology, healthcare practice, policy and governance, with practical advisory services around e-health security and data protection. His career spans over 30 years in advisory and R&D leadership roles, in Australia and the U.S.A. For most of that time he has been involved in healthcare. His advisory clients include state & federal health departments, human services organisations, public and private insurers, peak bodies and numerous e-health start-ups.

Stephen has long been involved in public policy for authentication and privacy. He was an invited member of the Australian Law Reform Commission Developing Technology Advisory Sub-committee (2007-08), and a Ministerial appointment to the National Electronic Authentication Council (1998-2001). He is a foundation member of the AU-ANZ chapter of the International Association of Privacy Professionals.

Stephen has authored numerous submissions to government inquiries on health & human services topics including the draft National Health Privacy Code (2003) and the Health & Welfare Access Card (2007). He has a substantial body of publications including academic and peer-reviewed papers on health records, health identifiers and privacy. Stephen holds Bachelor's degrees in Science and Electrical Engineering.

Selected health sector experience

- **W.H.O. 2021:** invited to provide specialist PKI advice to the digital vaccination working group, on the back of my digital Yellow Card paper (see below)
- **Service NSW 2020:** Multiple Privacy Impact Assessments (PIA) for the government's *COVID Safe Check-in* tool for contact tracing customers
- **HealthLink New Zealand 2018:** PKI governance review and procurement strategy
- **Office of the Australian Info Commissioner 2018:** independent "APP 11 Security" review within the terms of the *Privacy Act*, of the national *My Health Record*
- **Pharmacy industry peak body (confidential) 2016-17:** Privacy Impact Assessment (PIA) and privacy training program for this peak body developing nation-wide Big Data systems for prescription medication management and research
- **Aetna US 2016:** privacy and consumer affairs roadmap for the introduction of mobile biometrics to tens of millions of policy holders
- **International Council of Ophthalmologists, US 2014:** Intellectual property strategy, to help leverage ICO's foundational work on ICD-11 diagnostic codes
- **Dept of Health (Victoria) Web Transformation Program 2014:** Privacy Management Plan and PIA of new public web site and CRM
- **Dept of Health Victoria Seniors Program 2014:** Multiple PIAs of a new cloud services platform; Privacy Management & Communications Plans
- **Personally Controlled Electronic Health Record 2014:** security review under Australian legislated Information Privacy Principles of a national EHR
- **Queensland Health 2013:** Series of PIAs for an Electronic Medical Records Viewer and for Integrated Electronic Health Records (iEMR) systems
- **National E-Health Transition Authority (NEHTA) 2011-12:** PKI Manager for National Authentication Service for Health (NASH).

Stephen's other health sector clients include HealthSMART, NSW Health, Qld Health, South Australia Health, Vic Health & Human Services, the Commonwealth Department of Health, Medicare, the Australian General Practice Network and start-ups OzdocsOnline and groupNetwork. From 1988 to 1995 he worked for cardiac device pioneer Telectronics Pacing Systems in Australia and the U.S. in a variety of roles including software engineering management, quality and regulatory affairs.

Selected health related publications and presentations

- *A Goldilocks point for Digitised Vaccination Certs* Alan Turing Institute, Sept 13, 2021
- *A digital "Yellow Card"*, IEEE International Symposium Tech & Society, Nov 15, 2020
- *Making identity work in health* Medical Software Industry Assn, Sydney, June 13, 2019
- *How Healthy is Blockchain Technology?* HIMSS Asia Pac Conference, Singapore, Sept 13, 2017 (awarded Best Paper of the conference)
- *Data protection: Big data held to privacy laws, too* Nature v519, 414, 26 Mar 2015
- *Facebook's Challenge to the Collection Limitation Principle*, S. Wilson & A. Johnston, in Encyclopedia of Social Network Analysis and Mining, Rokne & Alhajj editors, 2014
- *Applying Information Privacy Norms to Re-Identification Demos*, Symposium on the Law, Ethics and Science of Re-Identification, Harvard Law School, May 2013
- *Designing Privacy by Design: hybrid Privacy & Security Risk Assessment* AusCERT 2013
- *Legal Limits to [DNA] Data Re-Identification*, Science 8 Feb 2013: V 339.6120 p 647
- *Smart Technologies to safeguard e-health*, Managing Patient Confidentiality and Information Governance, Melbourne, 2012
- *A Fresh Look at 'Balancing' Patient Privacy & Clinical Safety*, Managing Patient Confidentiality and Information Governance, Melbourne, 2011
- *A bigger threat to patient privacy when doctors use Facebook* BMJ Ethics, 20 Dec 2010
- *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, 2009
- *Smartcards and PKI at Medicare Australia AEEMA ICT Forums*, Sydney 2006
- *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
- *Ozdocsonline - A Case Study in Security & Privacy for a Doctor-patient Web-based Communication Tool* HIC/RACGP Computing Conference, Sydney, 2003.
- *PKI in e-health* New Zealand Department of Health briefing, Wellington, 2003
- *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.