Dr. Vincent Wang

Principal Engineer,
CHT Security Co., Ltd.
Taiwan

Speaker Bio

Dr. Vincent Wang (aka Wen-Cheng Wang) has devoted himself to cyber security profession for more than two decades. Previously, when working in Chunghwa Telecom (Taiwan), he participated in research and development of Public-Key Infrastructure (PKI) core technologies, which had later been used in establishing national infrastructure for digital identity management and encryption in Taiwan and other countries. During that period of developing PKI core technologies, Dr. Wang also joined the IETF PKIX Working Group (PKIX WG) and participated in developing the standards named "Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile" (RFC 5280) and "Sever-Based Certificate Validation Protocol" (RFC 5055). It is worth noting that RFC 5280 is the core standard for almost all kind of public-key certificates to be used on the Internet to support digital signature, authentication, encryption, and data integrity protection. Dr. Wang currently holds the position of the Principal Engineer in CHT Security Co., Ltd., a subsidiary of Chunghwa Telecom. He oversees the design and development of cybersecurity products, including the communications system with end-to-end encryption (E2EE).

- **Education**

School	Department	Degree	Duration
National Central University	Computer Science and Information Engineering	Ph.D.	1992-1998
National Central University	Information and Electronic Engineering	M.S.	1990-1992
National Central University	Electrical Engineering	B.S.	1986-1990

- **Working Experience**

Company	Department	Positions	Duration
CHT Security	Principal Engineer Office	Principal Engineer	2017-present
Data Communication Business Group of Chunghwa Telecom	Information & Communication Security Dept.	Chief PKI Product Director	2009-2017
Telecommunication Lab of Chunghwa Telecom	Security Lab	Project Leader	1998-2009

- **Specialty**
  - ASN.1 Syntax and Encoding
  - Applied Cryptography
  - PKI Certificate/CRL Format Design and Encoding
  - Certificate Management System Design
  - PKI Interoperability Framework
  - PKI-enabled Application Design
  - Identity and Access Management (IAM) System Design
  - End-to-End Encryption (E2EE) Communications System Design
  - Information Security Management System (ISMS)
  - Project Management

- **Professional Experiences**
  1. **Experience of international cooperations**
  - Participated in the Asia PKI Interoperability Experiments and working out "Asia PKI Interoperability Guideline"
  - Participated in working out "Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile" (RFC 5280) of IETF PKIX Working Group
  - Participated in working out "Sever-Based Certificate Validation Protocol" (RFC 5055) of

IETF PKIX Working Group
- Participated in Asia PKI Consortium General Assembly/Steering Committee Meeting and International Symposium
- Participated in working out "Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates" of CA/Browser Forum
- Instructor of APEC TEL PKI/e-Authentication Training Program
- Speaker of the 2010 Workshop on CA-CA Interoperability Framework in ASEAN

2. Experience of program participations
- Participated in working out "Government PKI (GPKI) Certificate Policies (CP)" of Taiwan
- Participated in working out " Government PKI (GPKI) Technical Specification" of Taiwan
- Participated in working out " Government PKI (GPKI) Certificate and CRL Profiles" of Taiwan
- Participated in the design and implementation of Government Root CA (GRCA) system and working out the Certification Practice Statement (CPS) in the GPKI project of Research, Development, and Evaluation Committee of the Executive Yuan
- Participated in the design and implementation of Government CA (GCA) system and working out the Certification Practice Statement (CPS) in the GPKI project of Research, Development, and Evaluation Committee of the Executive Yuan
- Participated in the design and implementation of miXed Organizational CA (XCA) system and working out the Certification Practice Statement (CPS) in the GPKI project of Research, Development, and Evaluation Committee of the Executive Yuan
- Participated in the design and implementation of Ministry of Economic Affairs CA (MOEACA) System and working out the Certification Practice Statement (CPS)
- Participated in the design and implementation of Ministry of the Interior CA (MOICA) System and working out the Certification Practice Statement (CPS)
- Participated in the design and implementation of Healthcare CA (HCA) system and working out the Certification Practice Statement (CPS)
- Participated in working out "Chunghwa Telecom e-Commerce PKI (ePKI) Certificate Policies (CP)"
- Participated in the design and implementation of Chunghwa Telecom ePKI root CA (eCA) system and working out the Certification Practice Statement (CPS)
- Participated in the design and implementation of Chunghwa Telecom PublicCA system and working out the Certification Practice Statement (CPS)
- Acted as the project leader of OneAuthen CA Implementation and Consultancy Services Project for INET Co, Thailand

- Acted as the project leader of the EDRMS and PKI Management System Development Project for St. Vincent and the Grenadines
- Acted as project leader of Consultancy Services for Planning Cybersecurity Enhancement of Eswatini Government Network