

Work Experience

11/2010 – present **Project Leader of Wireless M2M Communication Standards, LG Electronics, Korea**

- Responsible for standards strategy and project management for wireless M2M Communication standardization (oneM2M and OMA)
 - Foundation of oneM2M standardization in LGE

01/2009 – 10/2012 **Standardization and Research Engineer of OMA CPNS Security Standards, LG Electronics, Korea**

- Responsible for main delegate of OMA CPNS standardization (CPNS stands for Converged Personal Network Service, which overall framework is conceptually identical to M2M)
 - CPNS Security Mechanism (Key Assignment, Group Key management, GW Authentication, simplified Group Key management)
- Lead security issues for CPNS v1.0 and v1.1
- CPNS v1.0 / v1.1 Editor

01/2006 – 11/2011 **Standardization and Research Engineer of OMA DRM Standards, LG Electronics, Korea**

- Responsible for main delegate of OMA DRM standardization
 - [SCE v1.0] Rights Move Mechanisms (e.g., Move via Rights Issuer, Move Rights directly, Move Rights in a Domain)
 - [SCE v1.0] User Domain Mechanism (e.g., User Domain Upgrade, Authorization)
 - [SRM v1.1] Direct Provisioning of Rights to the SRM
 - [SRM v1.1] Local Rights Consumption for Mobile Broadcasting
 - [DRM v2.2] Accessing the DRM Contents using the Advertisement
- SRM (Secure Removable Media) v1.1 Work Item Champion (Rapporteur)

- Lead DRM v2.0/v2.1/v2.2, SRM v1.0/v1.1, and SCE v1.0
- SRM v1.1 / DRM v2.2 Editor

11/2004 – 12/2005 **Standardization and Research Engineer of OMA Security Standards, LG Electronics, Korea**

- Responsible for main delegate of OMA Security standardization
 - OMA Security Common Functions
- Lead SUPL (Secure User Plan Location) v1.0 Security issues
 - SUPL v1.0 Security Mechanisms (e.g., PSK-TLS Authentication, Key Management for SUPL Authentication, 3GPP based Authorization)

11/2000 – 01/2003 **Software Engineer, OnNet Technologies, Korea**

- Responsible for developing UMTS network protocol simulators
 - Implement Network access security mechanisms (e.g., Identification, AKA, Access link data integrity/Confidentiality)
 - Implement AAA (Authentication, Authorization, Accounting) protocol (e.g., RADIUS, Diameter)
 - Implement RRC, PDCP, RLC and MAC protocol

Education

2003 – 2005 **Center for Information Security Technologies of Korea University in Seoul, Korea** – M.S. of Information Security Engineering (Cryptographic Protocol Lab.[Prof. DongHoon Lee] – Cryptographic Protocol, Home Network Security, Wireless Sensor Network Security)

1995 – 2001 **Korea University in Seoul, Korea** – B.S. in Computer Science