


2011 Global Future Internet Week

Imperial Palace Hotel, Seoul, Korea, Nov 27~Dec 5, 2011

○ Presentation Schedule

Program	CJK FIW
Date	29/11/2011
Session	Architecture Session

○ Curriculum Vitae

Photo		Name	Woojik Chun
		Company	ETRI
Department	Future Internet Architecture Research team	Position	Principal Member of Research Staff
Curriculum Vitae	1978.3 - 1982.2 Seoul National Univ. Computer Eng. BS 1982.3 - 1984.2 Seoul National Univ. Computer Eng. MS 1987.6 – 1992.5 Univ. of Delaware, USA, Computer and Information Science, Ph.D.		
	1984.3 – 1987.6 ETRI, Data Communication Research Lab, Researcher 1992.5 – 1993.5 ETRI, Protocol Eng. Center, Senior Researcher 1993.5 – 2001.4 Chungnam National Univ., Computer Eng., Associate Professor 1997.8 – 1998.8 NIST, USA, Guest Researcher 2000.4 – 2009.5 Raonet Systems, Inc. CEO 2008.5 – 2008.12 Cambodia, ICT Consultant 2009.5 – Present ETRI, Future Internet Architecture Research Team, Principal member of research staff		

○ **Presentation Summary (Only for Speaker)**

Title	A Polymorphic Network Architecture based on Autonomous Domains
Summary	<p>Although the Internet achieved tremendous success in the last decades, several limitations are newly emerged due to recent technical advancement and challenging requirements of diverse applications. This talk proposes a novel architecture that supports polymorphic networks. In this presentation, diverse requirement form various areas is summarized into 6 categories first, and then several principles are extracted from the requirements. Based on the principles, a new framework called Domain-Insulated Autonomous Network architecture (DIANA) is presented. In the framework a network is composed of a set of basic building blocks, called “domains,” which can be defined recursively by topological, administrative, or operational grouping of communicating entities. The interworking between domains is explained with its distinguishing features such as ID based forwarding, inter-domain routing, and reactive path discovery mechanism. Finally the talk concludes with some use cases of DIANA</p>