Global Service Portability and Infrastructure for Next Generation Virtual Home and Office Environment

Theme:
Towards enabling global service portability and enabling next generation virtual home environment

Proposal:
Present day mobile systems focus heavily on the radio access segment, with very little attention paid to mobility at the applications and services level. Similarly, in the Internet arena, the standardization efforts for mobility support have mostly focused on enabling the roaming of a terminal identified by its network address. With rapid growth in Internet services and mobile hosts, it has become essential to address new requirements in cases where a customer is roaming between heterogeneous networks and providers. The customer should be able to seamlessly roam between   terrestrial and satellite networks, between wireline, wireless and ad-hoc networks, between pure Internet or IP/ATM connections, and between home and office. Different technologies at the service level network level and hardware/physical level are required to be supported to provide such scenario.

The purpose is to bring together engineers, practitioners, scientists, as well as industry professionals whose technical interests are global service portability (VHE, MCPE/MCPN, Pervasive Computing, Mobile-Commerce, Open Architectures, APIs), personal area/home wireless networks (WPAN, Bluetooth, HomeRF,..), self-organizing networks and wireless LANs (IEEE 802.11, HiperLAN, Wi-Fi..). The workshop is intended to be a genuinely interactive event with constructive development and exchange of ideas.

List of Topics:

Global Service Portability
  - Architecture & design for Virtual Home Environment (VHE)
  - Architecture & design for Mobile Customer Premises Environments/Networks (MCPE/MCPN)
  - APIs -based solutions (Parlay, 3GPP Open Service Architecture (OSA) for service portability
  - Service portability based on Mobile Execution Environment (MexE, JAVA)
  - Inter-Service environment roaming architecture and solutions
  - Inter-Network roaming architecture and solutions to enable VHE
  - Interoperability in multi-provider access networks
  - Scalability and adaptation of user terminal to services and platforms
  - Agents, middleware support, and enablers for VHE
  - Address and naming portability related to VHE
  - QoS profiling, billing and Security issues in ensuring VHE

- Related standards (3GPP, MWIF, 3G.IP, ETSI, IETF..)
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Chair: Prof. Jong-Tae. Park, KNU, Korea
Co-Chairs: Dr. Seshadri Mohan, Comverse
  Dr. Fawzi Dauod, GMD Focus, Germany
  Prof. Dan Keun Sung, KAIST, Korea

Technical Program Committee: (Tentative)
  Bernard Aboba, Microsoft, USA
  Claude Castelluccia, INRIA, France
  Do van Thanh, Telenor, Norway
  Guenter Karjoth, IBM Labs, Switzerland
  Hamid Alikhani, Sony International, Germany
  Hong-Yon Lach, Motorola Labs, France
  Jayapalan Jay, Motorola, USA
  John J. Barton, HP Labs, USA
  Kazi Farooqui, AT&T, USA
  Lieve Bos, Alcatel Bell, Belgium
  Moh. Torabi, Lucent Technologies, USA
  Odd-Wiking Rahlff, SINTEF, Norway
  Paolo Conforto, Alespazio, Italy
  Patricia Charlton, Motorola Labs, France
  Ravi Jain, Telcordia, USA
  Robert Mort, Alcatel Space, France
  Stefan Gessler, NEC Labs, Germany
  Terry Hodgkinson, BT, UK
  Wang-Chien Lee, GTE, USA
  Yamanaka Naoaki, NTT Labs, Japan
  Rami Neudorfer, Comverse
  Stanley Moyer, Telcordia Technologies

Conference Details:
Technical Sessions – 4 with 32 papers
Half-Day Panel Session
Half-Day Invited Speakers (Standards Bodies and Industry Consortia)

Prior Experience:

F. Dauod and S. Mohan "Service Portability and Virtual Home Environments," Globecom 2000 Workshop, San Francisco, Dec. 2000.

F. Dauod and S. Mohan, editors, IEEE Press Book on Service Portability and Virtual Home Environments.