

European Workshop on Broadband Femtocell Networks



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Towards ubiquitous high bitrate coverage

14th June 2011

Warsaw, Poland



PROGRAMME

Workshop chairs

Josep Vidal, UPC, Spain
Thierry Lestable, SAGEMCOM, France

Steering committee

Stefan Schmid, NEC, Germany
Sergio Barbarossa, Univ. of Rome, Italy
Frank Zdarsky, NEC, Germany

Date: Tuesday 14th June 2011
Time: 09h00-17h40

Schedule:

Session 1: Opening session		
Chairs: Prof Josep Vidal, UPC & Dr. Thierry Lestable, Sagemcom SAS		
Time: 09.00-11.00		
09.00-09.20	Welcome by Chairs and Introduction of Agenda	Prof. Josep Vidal & Dr. Thierry Lestable
09.20-09.40	Time and Frequency Synchronization Protocol for Femto Networks Harri Saarnisaari, Centre for Wireless Communications, Univ. of Oulu , Finland, <u>Juho Markkula</u> , Centre for Wireless Communications, Univ. of Oulu, Finland.	
09.40-10.00	Adaptive Downlink Power Control for HSDPA Femtocells <u>Massinissa Lalam</u> , Sagemcom E&T, France, Ioannis Papathanasiou, EURECOM, France, Masood Maqbool, Sagemcom E&T, France, Thierry Lestable, Sagemcom SAS, France	
10.00-10.20	Service-oriented Utility-based Uplink Power Control in Two-Tier Femtocell Networks <u>Timotheos Kastrinogiannis</u> , Institute of Communications and Computer Systems , Greece, Agapi Mesodiakaki, Institute of Communications and Computer Systems , Greece, Symeon Papavassiliou, Institute of Communications and Computer Systems , Greece	
10.20-10.40	Femtocell system optimization by genetic algorithm in clustered scenarios <u>Giovanni Imponente</u> , Dune Sistemi, Italy, Enrico de Marinis, Dune Sistemi, Italy.	
10.40-11.00	Study on Transmission Bearer Mechanisms for e-MBMS in LTE based Femtocells F.X. Ari Wibowo, Research and Development Center, Telkom Indonesia, Indonesia, Arya Adi Prakasa Bangun, Research and Development, Center, Telkom Indonesia, Indonesia.	
11.00-11.20	Coffee break	

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Session 2:	
Chair: Prof Josep Vidal, UPC & Dr. Thierry Lestable, Sagemcom SAS	
Time: 11.20-13.00	
11.20-11.40	A Femtocell Business Model: the BeFEMTO view Jean-Baptiste Vezin, Sagemcom, France, Lorenza Giupponi , CTTC, Spain, Alexander Tyrrell, DOCOMO Euro-Labs, Germany, Emilio Mino, Telefónica R&D, Spain, Mirosław Brzozowy, PTC, Poland.
11.40-12.00	Fast Cell Selection for femtocell based access networks Pierre Roux , Commissariat à l'Energie Atomique, (CEA), France, Mohamed Kamoun, Commissariat à l'Energie Atomique (CEA), France.
12.00-12.20	Balancing egoism and altruism in transmit beamforming in femtocells Mika Husso, Aalto University, Finland, Alexis Dowhuszko, Aalto University, Finland, Jyri Hämäläinen, Aalto University, Finland, Adriano Pastore, Technical University of Catalonia, Spain, Javier Fonollosa, Technical University of Catalonia, Spain.
12.20-12.40	Interference Pricing for Self-organisation in OFDMA Femtocell Networks Adrian Agustin , UPC, Spain, Josep Vidal, UPC, Spain, Olga Muñoz-Medina, UPC, Spain.
12.40-13.00	Performance of Practical Transmit Beamforming Methods for Interference Suppression in Closed-Access Femtocells Alexis Dowhuszko , Aalto University, Finland, Mika Husso, Aalto University, Finland, Juan Li, Aalto University, Finland, Jyri Hämäläinen, Aalto University, Finland, Zhong Zheng, Aalto University, Finland.

Lunch Break
Time: 13.00-14.00

Session 3: Panel session		
Chair: Prof Josep Vidal, UPC & Dr. Thierry Lestable, Sagemcom SAS		
Time: 14.00-15.40		
14.00-14.30	Keynote Talk #1 Prof. Simon Saunders, Chairman of Femto Forum	
14.30-15.00	Keynote Talk#2 Rupert Baines, VP Marketing, picochip Ltd	
15.00-15.40	Panel Discussion on Femtocells as Keystone of Heterogeneous Networks, driving the Offload revolution: - Femtocells Market: status, forecast, business models - Femtocells and WiFi: Complementary approach towards true ubiquitous and quality broadband solution - Key promising features of Next Generation (LTE-A and Beyond) Femtocells - Regulatory aspects of Femtocells: status, requirements, role in coming LTE bidding auctions - Multi-mode Femtocells: benefits for existing Network upgrade & frequency bands turmoil	Panellists: Prof. Simon Saunders, (Femto Forum) Rupert Baines, (picohip) Dr. Thierry Lestable, (Sagemcom SAS) Prof. Josep Vidal (UPC) Brzozowy Mirosław* , PTC, Technology & Innovation Dept <i>*panellist's name to be confirmed</i>

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15.40-16.00	Coffee break	
Session 4:		
Chair: Prof Josep Vidal, UPC & Dr. Thierry Lestable, Sagemcom SAS Time: 16.00-17.40		
16.00-16.20	Comparison of Femto Cell Deployment Models for an Interference Avoidance Technique <u>Masood Maqbool</u> , Sagemcom, France, Massinissa Lalam, Sagemcom, France, Thierry Lestable, Sagemcom, France	
16.20-16.40	Pricing mechanisms for interference management games in femtocell networks based on Markov modeling Sergio Barbarossa, DIET, University of Rome 'LaSapienza', Italy, Stefania Sardellitti, DIET, University of Rome 'LaSapienza', Italy, <u>Alessandro Carfagna</u> , DIET, University of Rome 'LaSapienza', Italy.	
16.40-17.00	Home eNodeB Handover Self-Optimisation Kristina Zetterberg, Ericsson, Sweden	
17.00-17.20	Securing the Backhaul for Mobile and Multi-homed Femtocells <u>Suneth Namal Karunarathna</u> , CWC, Finland, Andrei Gurtov, CWC, Finland, Mehdi Bennis, CWC, Finland	
17.20-17.40	Wrap-up & concluding remarks by Chairs	Prof. Josep Vidal & Dr. Thierry Lestable