**IST-2003-507581 WINNER****D8.8*****Report on raising public participation and awareness*****Contractual Date of Delivery to the CEC:** 31/12/2005**Actual Date of Delivery to the CEC:** 15/02/2006**Author(s):** Luitgard Hauer, Uwe Herzog, Ludwig Hiebinger**Participant(s):****Workpackage:** WP8**Estimated person months:** 2 PM**Security:** Public**Nature:** R**Version:** 1.0**Total number of pages:** 23**Abstract:.****Keyword list:****Disclaimer:**

Executive Summary

This document describes activities of the project for creating public awareness concerning the work results so far in the first phase of the runtime.

Technical expertise has created many new results in the analysis work, the outcome of tests on performance and throughput resulted in many publications, which are referenced in this document.

Additionally in section 7, 8 and 9, some general material on creating public awareness for the WINNER project is attached.

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Authors

Partner	Name	Phone / Fax / e-mail
SAG	Ludwig Hiebinger	Phone: +49 89 636 75213 Fax: +49 89 636 75121 e-mail: ludwig.hiebinger@siemens.com
EURE	Luitgard Hauer	Tel: (+49) 6221 989 405 Fax: (+49) 6221 989 e-mail: hauer@eurescom.de
	Uwe Herzog	Tel: (+49) 6221 989 132 Fax: (+49) 6221 989 e-mail: herzog@eurescom.de

1. Conference

Conferences have been organised within the umbrella framework of WWI to address the whole value chain of mobile communication from an end-to-end perspective. In the reporting period, two symposia (December 2004 in Brussels and 2005 in Paris) showed the concept and the first results out of this work. These conferences are seen as a good success for the projects in terms of participation (250 in Brussels and 170 people in Paris) as well as from the perspective of interesting discussions and feedback.

2. Press release

A press release has been issued on 20 February 2004 with the title “New Radio Technologies for Better Mobile Services”. The press release is accessible through <https://www.ist-winner.org/> under menu item “Press releases”. This press release is about the starting of the EU project WINNER.

3. Media briefing / media coverage

Several press interviews happened resulting in some articles in

- Czech magazine “Technologies&Prosperity”
- German newspaper “Welt am Sonntag”
- German newspaper „Financial Times Deutschland“
- Japanese magazine “IEICE Transactions”
- German magazine “c’t”
- UK company flyer of Samsung
- German magazine “ntz”

4. Exhibitions and public demos

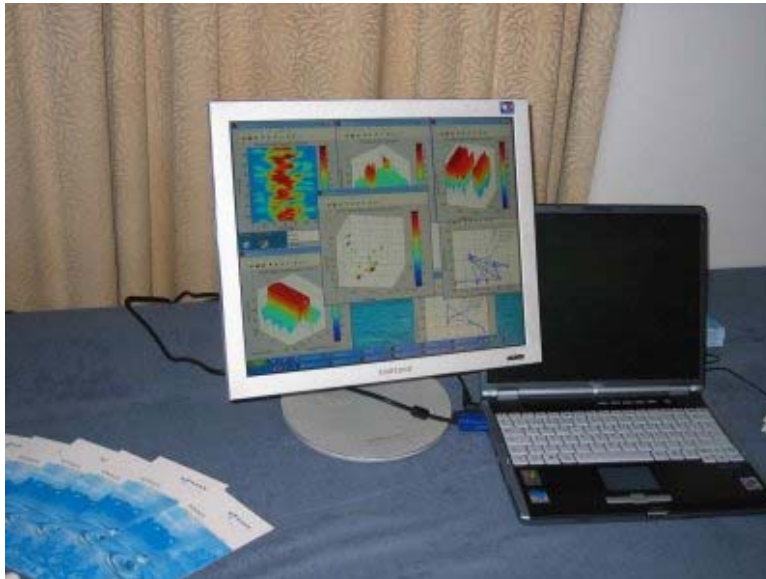
4.1. Public demonstrations and presentations

Presentations by WINNER participants to IST Concertation and Cluster Meetings
Wireless World Initiative (WWI) Werner Mohr, Siemens AG, Germany IST Concertation Meeting, 21 September 2004, Brüssel, Belgium
Proposal on a new cluster structure for the Mobile and Wireless Communication Technology area Werner Mohr, Siemens AG, Germany IST Concertation Meeting, 21 September 2004, Brüssel, Belgium
WINNER System Assessment Methodology Adam Pollard, Vodafone, UK IST BAI Cluster Meeting, 22 September 2004, Brüssel, Belgium
Radio technology investigation in WINNER Göran Klang, Ericsson AB, Sweden,; Ludwig Hiebinger, Siemens AG, Germany IST BAI Cluster Meeting, 22 September 2004, Brüssel, Belgium
Co-operation mechanisms to be supported by WINNER inter-RAN co-operation architecture Albena Mihovska, Aalborg University, Denmark IST B3G Systems Architecture Cluster Meeting, 8 December 2004, Brüssel, Belgium
WINNER Link to System Interface

Angeliki Alexiou, Lucent Technologies, UK IST BAI Cluster Meeting, 8 December 2004, Brüssel, Belgium
Presentations by WINNER participants to other events
Efficient spectrum management techniques for future mobile systems Shyamalie Thilakawardana, Rahim Tafazolli, University of Surrey, UK; Stephan Pfletschinger, Centre Technològic de Telecommunications de Catalunya, Spain; Kari Hooli, Antti Tölli, University of Oulu, Finland; Alfonso Tierno, Telefónica Investigación y Desarrollo, Spain E2R Workshop on Reconfigurable mobile systems and networks beyond 3G, 5 September 2004, Barcelona, Spain
Generic Protocol Software for Reconfigurable Systems (invited presentation) L Berlemann, M Siebert and B Walke, RWTH Aachen University, Germany E2R Workshop on Reconfigurable mobile systems and networks beyond 3G, 5 September 2004, Barcelona, Spain
Wireless World Initiative (WWI) Werner Mohr, Siemens AG, Germany IST Conference 2004, 15-17 November 2004, The Hague, Netherlands
WINNER – Wireless World Initiative New Radio Hanspeter Sutter, Elektrobit, Switzerland; Jörn von Häfen, Siemens AG, Germany Radio Research Laboratory of the Ministry of Information & Communication, 7 December 2004, Seoul, Korea
Empirical Large-Scale Characterization of the Received Power for Rural, Suburban and Indoor Environments on 2.45 and 5.25 GHz Bands Daniela Laselva, Xiongwen Zhao, Juha Meinilä, Jukka-Pekka Nuutinen, Pekka Kyösti, Lassi Hentilä, Elektrobit, Finland COST273 meeting, 20-21 January 2005, Bologna, Italy
COST 273 TD(05)030: MATLAB implementation of the 3GPP Spatial Channel Model (3GPP TR 25.996) Jari Salo, Jussi Salmi, Helsinki University of Technology, Finland; Giovanni del Galdo, Marko Milojevic, Christian Schneider, Technische Universität Ilmenau, Germany; Pekka Kyösti, Daniele Laselva, Elektrobit, Finland COST273 meeting, 20-21 January 2005, Bologna, Italy
COST 273 TD(05)xyz: Channel Models and Parameters for B3G Indoor, Rural and Suburban Wireless Communications Xiongwen Zhao, Pekka Kyösti, Lassi Hentilä, Tommi Jämsä, Juha Meinilä, Daniela Laselva, Jukka-Pekka Nuutinen, Elektrobit Testing Ltd, Finland COST273 meeting, 06-08 June 2005, Leuven, Belgium

2nd WWI Symposium in Paris

The 2nd WWI Symposium was taking place from December 6 – 7, 2005 in Paris. The WINNER project showed the final version of the spectrum methodology tool, as well as some results of the channel modeling work. The interest was surprisingly high: experts from all around the world exchanged ideas with our stand team..



5. Publications

This table gives a compilation of contributions submitted by WINNER individuals and accepted to conferences, publications, standards bodies, etc. since the beginning of the Project in January 2004 throughout the reporting period until December 2005 sorted according to event and time.

In 2004

Title
Authors
Conference/Publication, time and venue
Dynamic Relay Management Byron Bakaimis, Samsung Electronics, UK WWRF11 Meeting, 10-11 June 2004, Oslo, Norway

<p>Need for Newly Identified Spectrum for System B3G - Let's forget Illusions Werner Mohr, Siemens AG, Germany WWRF11 Meeting, 10-11 June 2004, Oslo Norway</p>
<p>Cooperation of Radio Access Networks: The IST FP6 WINNER project approach Vaia Sdralia, Samsung Electronics, UK; Emilio Mino, Telefonica, Spain; Matthias Lott, Siemens AG , Germany; Delphine Lugara, France Telecom, France; Albena Mihovska, Seshaiyah Ponnekanti, Aalborg University, Denmark; Elias Tragos, National Technical University of Athens, Greece WWRF11 Meeting, 10-11 June 2004, Oslo, Norway</p>
<p>Scenarios from the WINNER project: Process and initial Results P. Gelpi, France Telecom, France; A. Mihovska, Aalborg University, Denmark; A. Lazanakis, G. Karetosos, National Technical University of Athens, Greece; J. Henriksson, P. Ollikainen, Nokia, Finland; B. Hunt, Philips Electronics, UK; L. Moretti, Siemens Mobile, Italy; A. Tierno, Telefonica, Spain WWRF11 Meeting, 10-11 June 2004, Oslo, Norway</p>
<p>Architecture Proposal for the WINNER Radio Access Network and Protocol Bernhard Walke, Ralf Pabst, Lars Berlemann, Daniel Schultz, RWTH Aachen University, Germany WWRF11 Meeting, 10-11 June 2004, Oslo, Norway</p>
<p>Weighted Spectral Efficiency for the Comparison of Candidate Future Radio Access Technologies Ralf Pabst, Tim Irnich, Bernhard Walke, RWTH Aachen University, Germany WWRF11 Meeting, 10-11 June 2004, Oslo, Norway</p>
<p>Performance of MAC-Frame-Based Protocols for Mobile Broadband Systems using Layer 2 Relays Norbert Esseling, Ralf Pabst, Bernhard Walke RWTH Aachen University, Germany WWRF11 Meeting, 10-11 June 2004, Oslo, Norway</p>
<p>Spectrum Estimation Methodology for Next Generation Wireless Systems Tim Irnich, Bernhard Walke, RWTH Aachen University, Germany WWRF11 Meeting, 10-11 June 2004, Oslo, Norway</p>
<p>Dual Bandwidth Approach to New Air Interface Mikko Rinne, Pirjo Pasanen, Pauli Seppinen, Kari Leppänen, Nokia, Finland WWRF11 Meeting, 10-11 June 2004, Oslo, Norway</p>
<p>WWI: The Wireless World Initiative – A Framework for Research on Systems B3G H. Abramowicz, N. Niebert, Ericsson; W. Mohr, L. Hiebinger, J. von Häfen, Siemens; A. Afterlak, D. Bourse, K. El-Khazen, Motorola; M. Klemettinen, J. Salo, Nokia; F. Carrez, F. Bataille, Alcatel; P. Hölttä, Elisa; C. Prehofer, DoCoMo; N. Jefferies, Vodafone; J. Enriquez Gabeiras, Telefonica; B. Cardinael, France Telecom 13th IST Mobile and Wireless Communication Summit, 28-30 June 2004, Lyon, France</p>
<p>The WINNER project: Research for new radio interfaces for better mobile services Werner Mohr, Ludwig Hiebinger, Jörn von Häfen, Siemens AG, Germany, Emilio Mino Diaz, Telefonica, Spain; Pierre Gelpi, France Telecom, France; Tommi Jämsä, Elektrobit, Finland; Göran Malmgren, Ericsson AB, Sweden; Pekka Ojanen, Nokia, Finland; Daniel Chr. Schultz, RWTH Aachen University, Germany 13th IST Mobile and Wireless Communication Summit, 28-30 June 2004, Lyon, France</p>
<p>Performance Analysis of IEEE 802.16a in Mesh Operation Mode Simone Redana, Politecnico di Milano, Italy; Matthias Lott, Siemens AG, Germany 13th IST Mobile and Wireless Communication Summit, 28-30 June 2004, Lyon, France</p>
<p>Performance Evaluation of a fixed Relay Concept for next Generation Wireless Systems Norbert Esseling, Ralf Pabst, Bernhard Walke, RWTH Aachen University, Germany PIMRC2004, 5-8 September 2004, Barcelona, Spain</p>
<p>Location-based Adaptive Sub-Band Allocation for Multi Carrier Multiple Access Systems E. Costa, P. Trifonow, A. Filippi, Siemens AG, Germany PIMRC 2004, 5-8 September 2004, Barcelona, Spain</p>
<p>Spectrum Estimation Methodology for Next Generation Wireless Systems Tim Irnich, Bernhard Walke, RWTH Aachen University, Germany PIMRC 2004, 5-8 September 2004, Barcelona, Spain</p>

Behaviour Based Strategies in Radio Resource Sharing Games L Berlemann, S Mangold and B Walke, RWTH Aachen University, Germany PIMRC 2004, 5-8 September 2004, Barcelona, Spain
Performance Evaluation for IEEE 802.11g Hot Spot Coverage Using Sectorised Antennas Arif Otyakmaz, Ulrich Fornefeld, Jelena Mirkovic, Daniel Christian Schultz, and Erik Weiss, RWTH Aachen University, Germany PIMRC 2004, 5-8 September 2004, Barcelona, Spain
Simulative Evaluation of Location Aided Handover in Wireless Heterogeneous Systems Stephan Göbbels, Matthias Siebert, Marc Schinnenburg and Matthias Lott, RWTH Aachen University, Germany PIMRC 2004, 5-8 September 2004, Barcelona, Spain
BER-based vs. Game-theoretic power allocation strategies for multiuser systems Diego Bartolome, Centre Tecnologic de Telecomunicacionse de Catalunya, Spain; Ane Perez-Neira, Universitat Politecnica de Catalunya, Spain European Signal Processing Conference (EUSIPCO) 2004, 7-10 September 2004, Vienna, Austria
WINNER: Wireless World Initiative New Radio Krzysztof Wesolowski, Poznan University of Technology, Poland National Communication Symposium (KST), 8-10 September 2004, Bydgoszcz, Poland
Effects of the Reduction of the Time and Frequency Separation in Multi-Carrier Systems Alessio Filippi, Elena Costa, Egon Schulz, Siemens AG, Germany 9th International OFDM Workshop, 15-16 September 2004, Dresden, Germany
Adaptive User allocation, Bit and Power Loading in Multi-Carrier Systems P. Trifonov, E. Costa and E. Schulz, Siemens AG, Germany 9th International OFDM Workshop, 15-16 September 2004, Dresden, Germany
Signal and Interference Measurements for Resource Allocation Schemes in OFDM-based Cellular Networks Ting Chen, Herman Rohling, Technische Universität Hamburg-Harburg; Elena Costa, Siemens AG, Germany 9 th International OFDM Workshop, 15-16 September 2004, Dresden, Germany
Lattice-Reduction Aided Detection: Spatial Multiplexing versus Quasi-Orthogonal STBC Audin Sezgin, E. A. Jorswieck, Fraunhofer HHI; Elena Costa, Siemens AG, Germany VTC Autumn 2004, 26-29 September 2004, Los Angeles, US
Optimal Transmit Strategies in MIMO Ricean Channels with MMSE Receiver E. Jorswieck, A. Sezgin, H. Boche, Fraunhofer HHI; E. Costa, Siemens AG, Germany VTC Autumn 2004, 26-29 September 2004, Los Angeles, US
Combination of Block Diagonalization and THP Transmit Filtering for Downlink Beamforming in Multi-User MIMO Systems Veljko Stankovic, Martin Haardt, Martin Fuchs, Technische Universität Ilmenau, Germany European Conference on Wireless Technology (ECWT) 2004, 11-12 October 2004, Amsterdam
Fixed and Mobile Relay- based solutions for improving outdoors coverage Byron Bakaimis, Samsung Electronics, UK Mobile IBC InfraTech 2004, 20-21 October 2004, London, UK
Reconfigurable Mobile Relays Byron Bakaimis, Samsung Electronics, UK WWRF12 Meeting, 4-5 November 2004, Toronto, Canada
Termination Issues for Retransmission Protocols Niklas Johansson, Kai-Erik Sunell, Ericsson; Vaia Sdralia, Samsung Electronics, UK WWRF12 Meeting, 4-5 November 2004, Toronto, Canada
Multi-user MIMO downlink pre-coding for users with multiple antennas Veljko Stankovic and Martin Haardt, Technische Universität Ilmenau, Germany

<p>WWRF12 Meeting, 4-5 November 2004, Toronto, Canada</p> <p>Interactive Channel Estimation and Frequency Domain Equalization for Single-Carrier Wireless Systems Benjamin Ng and David Falconer, Carleton University, Canada WWRF12 Meeting, 4-5 November 2004, Toronto, Canada</p> <p>WWRF White Paper on Multidimensional Radio Channel Measurement and Modelling for Wideband Wireless Access Systems Tommi Jämsä, Juha Ylitalo, Elektrobit, Finland WWRF12 Meeting, 4-5 November 2004, Toronto, Canada</p> <p>Adaptive OFDMA/TDMA Transmission at Vehicular Velocities Mikael Sternad, Sorour Falahati, Uppsala University; Tommy Svensson, Chalmers University, Sweden WWRF12 Meeting, 4-5 November 2004, Toronto, Canada</p> <p>Adaptive OFDMA/TDMA transmission at Vehicular Velocities Mikael Sternad, Tommy Svensson and Sorour Falahati, University of Uppsala, Sweden WWRF 12 Meeting, 4-5 November 2004, Toronto, Canada</p> <p>On the efficiency of using multiple hops in relay based networks Adrian Florea, Halim Yanikomeroglu, Carleton University, Canada WWRF 12 Meeting, 4-5 November 2004, Toronto, Canada</p> <p>Views on the technical radio aspects concerning suitable frequency ranges for systems beyond IMT2000 Christoph Legutko, Siemens AG, Germany WWRF 12 Meeting, 4-5 November 2004, Toronto, Canada</p>
<p>WWI Overview Presentation Werner Mohr, Siemens AG, Germany 1st WWI Symposium, 9-10 December 2004, Brüssel, Belgium</p> <p>Wireless World Initiative – New Radio Werner Mohr, Siemens AG, Germany 1st WWI Symposium, 9-10 December 2004, Brüssel, Belgium</p> <p>Setting the Landscape – Architectures and Concepts Bernhard Walke, Daniel Schultz, RWTH Aachen University, Germany; Göran Malmgren, Ericsson AB, Sweden; Emilio Diaz, Telefonica, Spain 1st WWI Symposium, 9-10 December 2004, Brüssel, Belgium</p> <p>Setting the Scene – a New Radio Interface for the Wireless World Jörn von Häfen, Siemens AG, Germany; Bernard Hunt, Philips Electronics, UK 1st WWI Symposium, 9-10 December 2004, Brüssel, Belgium</p> <p>Setting the Mosaic – Key Enablers for a new Radio Interface Göran Malmgren, Ericsson AB, Sweden; Pekka Ojanen, Nokia, Finland; Tommi Jämsä, Elektrobit, Finland 1st WWI Symposium, 9-10 December 2004, Brüssel, Belgium</p> <p>WINNER Outlook Ludwig Hiebinger, Siemens AG, Germany 1st WWI Symposium, 9-10 December 2004, Brüssel, Belgium</p>
<p>QoS Routing in Multihop Wireless Networks: a New Model and Algorithm Antonio Capone, Politecnico di Milano; Luca Coletti, Marco Zambardi, Siemens Mobile, Italy QoS-IP 2005: The Third International Workshop on QoS in Multiservice IP Networks, 2-4 February 2005, Catania, Italy</p> <p>On the performance of hybrid macro/microdiversity in the reverse-link microcellular networks Abdulkareem Adinoyi, Halim Yanikomeroglu, Carleton University, Canada IEEE Wireless Communications and Networking Conference 2005 (WCNC'05), 13-17 March 2005, New Orleans, USA</p> <p>Iterative Interference Suppression for Pseudo Random Postfix OFDM based Channel Estimation Markus Muck, Marc de Courville, Xavier Miet, Motorola Labs, France</p>

International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2005) 19-23 March 2005 Philadelphia, USA
Successive optimization Tomlinson-Harashima precoding (SO THP) for multi-user MIMO systems Veljko Stankovic, Martin Haardt, Technische Universität Ilmenau, Germany International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2005) 19-23 March 2005 Philadelphia, USA
Multi-user MIMO downlink beam-forming over correlated MIMO channels Veljko Stankovic, Martin Haardt, Technical University of Ilmenau, Germany International ITG/IEEE Workshop on Smart Antennas, 04-05 April 2005, Duisburg, Germany
Multi-Coded OFDM Transmission using Space-Time Block Codes Adam Piatyszek, Michal Wodczak, Krzysztof Wesolowski, Poznan University of Technology, Poland XI National Symposium of Radio Science (URSI), 7-8 April 2005, Poznan, Poland
On the Adaptive Approach to Antenna Selection and Space-Time Block Coding in Context of the Relay Based Mobile Ad-hoc Networks Michal Wodczak, Poznan University of Technology, Poland XI National Symposium of Radio Science (URSI) 7-8 April 2005, Poznan, Poland
A Reconfigurable Multi-Mode Protocol Reference Model Facilitating Modes Convergence Lars Berlemann, Ralf Pabst, Bernhard Walke, RWTH Aachen University, Germany 11 th European Wireless Conference, 11-15 April 2005, Nicosia, Cyprus
Optimization of a Reduced-Complexity Decoding Algorithm for LDPC Codes by Density Evolution G. Richter, G. Schmidt, M. Bossert, E. Costa, Siemens AG, Germany IEEE International Conference on Communications 2005 (ICC'05), 16-20 May 2005, Seoul, Korea
On the impact of system resource constraints on wireless relaying channels John Boyer, David D. Falconer, Halim Yanikomeroglu, Carleton University, Canada IEEE International Conference on Communications 2005 (ICC'05), 16-20 May 2005, Seoul, Korea
A Framework for 4G Radio Access Erik Dahlmann, Pål Frenger, Jiann-Ching Guey, Göran Klang, Reiner Ludwig, Michael Meyer, Niclas Wiberg, Ericsson AB, Sweden VTC 2005 Spring Conference, 30 May-1 June 2005, Stockholm, Sweden
Connectivity Investigation Of Mobile Relays For Next Generation Wireless Systems Byron Bakaimis, Thierry Lestable, Samsung Electronics, UK VTC 2005 Spring Conference, 30 May-1 June 2005, Stockholm, Sweden
An Interim Channel Model for 4G Systems Daniel Baum, ETH Zürich; Jari Salo, Helsinki University of Technology; Giovanni del Galdo, Marco Milojevic, Technische Universität Ilmenau; Pekka Kyösti, Elektrobit VTC 2005 Spring Conference, 30 May-1 June 2005, Stockholm, Sweden
Joint Tomlinson Harashima Precoding with Orthogonal Space Time Block Codes for Multi-User MIMO OFDM Systems Dafei Wang, E. Jorswieck, A. Sezgin, E. Costa, Siemens AG, Germany VTC 2005 Spring Conference, 30 May-1 June 2005, Stockholm, Sweden
A Spectral Efficient Method for Sub-carrier and Bit Allocation in OFDMA Miguel Acena, Chalmers University of Technology, Sweden; Stephan Pfletschinger, Centre Tecnologic de Telecomunicacions de Catalunya (CTTC), Spain VTC 2005 Spring Conference, 30 May-1 June 2005, Stockholm, Sweden
Pseudo Random Postfix OFDM based channel estimation in a Doppler scenario Markus Muck, Laurent Mazet, Marc de Courville, Motorola Labs, France 14 th IST Mobile and Wireless Communications Summit, 19-22 June 2005, Dresden, Germany
Advanced OFDM Modulators considered in the IST-WINNER framework for future wireless systems Markus Muck, Motorola Labs, France; Jean-Philippe Javaudin, France Telecom, France 14th IST Mobile and Wireless Communications Summit, 19-22 June 2005, Dresden, Germany
Publications by WINNER participants (submissions subject to WINNER approval)

<p>The WINNER project: Research for New Radio Interfaces for Better Mobile Services Emilio Mino Diaz, Telefonica, Spain; Pierre Gelpi, France Telecom, France; Werner Mohr, Ludwig Hiebinger, Jörn von Häfen, Siemens AG, Germany; Tommi Jämsä, Elektrobit, Finland; Göran Malmgren, Ericsson AB, Sweden; Pekka Ojanen, Nokia, Finland; Daniel Chr. Schultz, RWTH Aachen University, Germany IEICE Transactions, Japan, Volume E87-A, No.10, October 2004</p>
<p>Opportunistic Beamforming and Scheduling for OFDM Systems Patrick Svedman, Sarah Wilson, Leonard Cimini, Björn Ottersten, KTH, Sweden IEEE Transactions on Communications</p>
<p>Hybrid Macro-/Micro-diversity Techniques in the Reverse-link Wireless Communication Networks Abdulkareem Adinoyi, Halim Yanikomeroğlu, Carleton University, Canada IEEE Transactions on Wireless Communications</p>
<p>Publications by WINNER participants (submissions not subject to WINNER approval)</p>
<p>Fixed Relays For Next Generation Wireless Systems N Esseling, B Walke, B. and R Pabst, RWTH Aachen University, Germany In Emerging Location Aware Broadband Wireless Adhoc Networks, pp. 71-91, New York, USA, 01/2005</p>
<p>Modular Link Layer Functions of a Generic Protocol Stack for Future Wireless Networks L Berlemann, A Cassaigne, R Pabst, R. and B Walke, RWTH Aachen University, Germany In Proceedings of 2004 Software Defined Radio Technical Conference, p. 6 Phoenix, USA, 11/2004</p>
<p>Relay-Based Deployment Concepts for Wireless and Mobile Broadband Radio R Pabst, B Walke, D Schultz, et al, RWTH Aachen University, Germany In IEEE Communications Magazine, pp. 80-89, New York, USA, 09/2004</p>
<p>Cooperation in Radio Resource Sharing Games of Adaptive Strategies L Berlemann, G Hiertz, B Walke and S Mangold, RWTH Aachen University, Germany In Proceedings of IEEE Vehicular Technology Conference 2004-Fall, p. 5, Los Angeles, USA, 09/2004</p>
<p>Generic Protocol Functions for Design and Simulative Performance Evaluation of the Link-Layer for Re-configurable Wireless Systems L Berlemann, A Cassaigne and B Walke, RWTH Aachen University, Germany In Proceedings of The 7th International Symposium on Wireless Personal Multimedia Communications, p. 5, Abano Terme, Italy, 09/2004</p>
<p>Traffic Performance of the Wireless Channel-Oriented Ad-hoc Multi-hop Broadband System Rui Zhao and Bernhard Walke, RWTH Aachen University, Germany In Proceedings of the 2004 IEEE 60th Vehicular Technology Conference, p. 5, Los Angeles, USA, 09/2004</p>
<p>Hybrid Information System Matthias Siebert, Matthias Lott, Marc Schinnenburg and Stephan Göbbels, RWTH Aachen University, Germany In Proceedings of IEEE Semi-annual Vehicular Technology Conference (VTC2004-Spring), p. 5, Milan, Italy, 05/2004</p>
<p>On the Reliability of Location based Networking Matthias Siebert, Daniel Bültmann and Maija Vorobjova, RWTH Aachen University, Germany In 1st Workshop on Positioning, Navigation and Communication 2004, WPNC'04, pp. 107-112, Hannover, Germany, 03/2004</p>
<p>Location Aided Handover Support for Next Generation System Integration Matthias Siebert, Marc Schinnenburg, Matthias Lott and Stephan Göbbels, RWTH Aachen University, Germany In The 5th European Wireless Conference, Mobile and Wireless Systems beyond 3G (EW2004) , pp. 195-202, Barcelona, Spain, 02/2004</p>
<p>Improving Ad Hoc Routing for Future Wireless Multihop Networks Erik Weiss, Markus Frewel, Guido Hiertz and Bagnan Xu, RWTH Aachen University, Germany In Proceedings of the fifth European Wireless Conference: Mobile and Wireless Systems beyond 3G, EW04, Vol.5, pp. 358-364, Barcelona, Spain, 02/2004</p>

Contributions by WINNER participants to Standards and Regulatory Bodies
Document 8F/144: Research Activities on Spectrum in Wireless World Initiative - New Radio (WINNER), Requirements Estimation Methodology. ITU-R WP8F Meeting 12, 18-25 February 2004, Busan, Korea
Document ECC PT1(04)119: Requirements from Proposed Spectrum Calculation Methodology on Market Study. CEPT ECC PT1 Meeting, 2-4 June 2004, Mainz, Germany The document was submitted with minor modifications as agreed European contribution to ITU-R WP8F Meeting 13, 16-23 June 2004 in Berlin as Document 8F/221
Document ECC PT1(04)120: First preliminary view on the suitable frequency ranges for systems beyond IMT-2000 from a technical perspective. CEPT ECC PT1 Meeting, 2-4 June 2004, Mainz, Germany The document was submitted with minor modifications as agreed European contribution to ITU-R WP8F Meeting 13, 16-23 June 2004 in Berlin as Document 8F/224
Document ECC PT1(04)121: Proposed Spectrum Calculation Methodology for Future Development of IMT-2000 and Systems Beyond IMT-2000. CEPT ECC PT1 Meeting, 2-4 June 2004, Mainz, Germany The document was submitted with minor modifications as agreed European contribution to ITU-R WP8F Meeting 13, 16-23 June 2004 in Berlin as Document 8F/227
Document 8F/221: Requirements from Proposed Spectrum Calculation Methodology on Market Study ITU-R WP8F Meeting 13, 16-23 June 2004, Berlin, Germany
Document 8F/224: Initial preliminary view on the on the technical radio aspects concerning suitable frequency ranges for systems beyond IMT-2000. ITU-R WP8F Meeting 13, 16-23 June 2004, Berlin, Germany
Document 8F/227: Proposed Spectrum Calculation Methodology for Future Development of IMT-2000 and Systems Beyond IMT-2000. ITU-R WP8F Meeting #13, 16-23 June 2004, Berlin, Germany
Document ECC PT1(04)168: Radio Aspects Information Required by Proposed Spectrum Requirements Calculation Methodology CEPT ECC PT1 Meeting, 6-8 September 2004, Cambridge, UK The document was submitted with minor modifications as agreed European contribution to ITU-R WP8F Meeting 14, 13-20 October 2004 in Shanghai as Document 8F/304
Document ECC PT1(04)169: On the Applying of Additional Weighting Factors in Spectrum Calculation Methodology CEPT ECC PT1 Meeting, 6-8 September 2004, Cambridge, UK The document was submitted with minor modifications as agreed European contribution to ITU-R WP8F Meeting 14, 13-20 October 2004 in Shanghai as Document 8F/314
Document ECC PT1(04)170: Further View on the Technical Radio Aspects Concerning Suitable Frequency Ranges for Systems Beyond IMT-2000 CEPT ECC PT1 Meeting, 6-8 September 2004, Cambridge, UK The document was submitted with minor modifications as agreed European contribution to ITU-R WP8F Meeting 14, 13-20 October 2004 in Shanghai as Document 8F/313
Document ECC PT1(04)174: Proposed Amendments to "Working Document towards Methodology for Calculation of Spectrum Requirements for the Future Developments of IMT-2000 and Systems Beyond IMT.2000 from the Year 2010 onwards" CEPT ECC PT1 Meeting, 6-8 September 2004, Cambridge, UK The document was submitted with minor modifications as agreed European contribution to ITU-R WP8F Meeting 14, 13-20 October 2004 in Shanghai as Document 8F/328
Document ECC PT1(04)175: Sensitivity of Algorithm for Calculation of System Capacity Required to Fulfil Mean Delay Requirements CEPT ECC PT1 Meeting, 6-8 September 2004, Cambridge, UK The document was submitted with minor modifications as agreed European contribution to ITU-R WP8F Meeting 14, 13-20 October 2004 in Shanghai as Document 8F/330
Document 8F/304: Radio Aspects Information Required By Proposed Spectrum Calculation

Methodology. ITU-R WP8F Meeting 14, 13-20 October 2004 in Shanghai, China.
Document 8F/313-E: Further View On The Technical Radio Aspects Concerning Suitable Frequency Ranges for Systems Beyond IMT-2000 ITU-R WP8F Meeting 14, 13-20 October 2004 in Shanghai, China.
Document 8F/314: On The Applying Of Additional Weighting Factors In Spectrum Calculation Methodology ITU-R WP8F Meeting 14, 13-20 October 2004 in Shanghai, China.
Document 8F/328: Proposed Amendments to "Working Document Towards Methodology For Calculation Of Spectrum Requirements For The Future Developments of IMT-2000 And Systems Beyond IMT-2000 From The Year 2010 Onwards" ITU-R WP8F Meeting 14, 13-20 October 2004 in Shanghai, China.
Document 8F/330: Sensitivity Of Algorithm For Calculation Of System Capacity Required To Fulfill Mean Delay Requirements ITU-R WP8F Meeting 14, 13-20 October 2004 in Shanghai, China.
Document ECC PT1(05)xyz: Input to the European response to ITU-R "Questionnaire on the services and market for the future development of IMT-2000 and systems beyond IMT-2000" from WINNER project CEPT ECC PT1 Meeting, 12-14 January 2005, Uppsala, Sweden
Document ECC PT1(05)014: Proposed modifications to "working document towards methodology for calculation of spectrum requirements for the future developments of imt-2000 and systems beyond IMT-2000 from the year 2010 onwards CEPT ECC PT1 Meeting, 12-14 January 2005, Uppsala, Sweden
Document ECC PT1(05)017: Estimation of Packet Size statistics for evolved and new services in IMT-2000 and systems beyond IMT-2000 CEPT ECC PT1 Meeting, 12-14 January 2005, Uppsala, Sweden
Document ECC PT1(05)016: Further information on required radio parameters for the spectrum requirement calculation methodology CEPT ECC PT1 Meeting, 12-14 January 2005, Uppsala, Sweden
Document ECC PT1(05)015: RAT group approach For spectrum requirements calculation methodology CEPT ECC PT1 Meeting, 12-14 January 2005, Uppsala, Sweden
Academic Thesis
On the Efficiency of Using Multiple Hops in Fixed Relay based Wireless Networks MASc thesis by Adrian Florea, supervised by Halim Yanikomeroglu, PhD, Carleton University, Canada December 2004

In 2005

Title
Authors
Conference/Publication, time and venue
Presentations by WINNER participants to Conferences
Submissions to events in Quarter 1 2005 (WINNER Q5)
QoS Routing in Multihop Wireless Networks: a New Model and Algorithm Antonio Capone, Politecnico di Milano; Luca Coletti, Marco Zambardi, Siemens Mobile, Italy QoS-IP 2005: The Third International Workshop on QoS in Multiservice IP Networks, 2-4 February 2005, Catania, Italy
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Ernesto Zimmermann, Wolfgang Rave and Gerhard Fettweis, Technische Universität Dresden, Germany 11 th European Wireless Conference, 11-15 April 2005, Nicosia, Cyprus
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Advanced OFDM Modulators considered in the IST-WINNER framework for future wireless systems Markus Muck, Motorola Labs, France; Jean-Philippe Javaudin, France Telecom, France 14 th IST Mobile and Wireless Communications Summit, 19-22 June 2005, Dresden, Germany
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<p>Impact of smart antennas on QoS routing for multi-hop wireless networks Luca Coletti, Daniele Cigloni, Marco Zambardi, Siemens Mobile Communications; Italy; Antonio Capone, Politecnico di Milano, Italy 14th IST Mobile and Wireless Communications Summit, 19-22 June 2005, Dresden, Germany</p>
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<p>Cooperation of 4G Radio Networks with Legacy Systems Matthias Lott, Siemens AG, Germany; Vaia Sdralia, Samsung Electronics, UK; Mylene Pischella, Delphine Lugara, France Telecom, France; Alben Mihovska, Seshaiha Ponnekanti, Aalborg University, Denmark; Elias Tragos, National Technical University of Athens, Greece; Emilio Mino, Telefonica, Spain 14th IST Mobile and Wireless Communications Summit, 19-22 June 2005, Dresden, Germany</p>
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<p>Submissions to events in Quarter 3 2005 (WINNER Q7)</p>
<p>WWRF14, 07-08 July 2005, San Diego, US</p>
<p>Possible Impact of Emissions from UWB Devices on Systems beyond 3G Kari Hooli, University of Oulu, Finland; Jörg Huschke, Ericsson Research, Germany; Werner Mohr, Siemens AG, Germany; Pekka Ojanen, Nokia, Finland; Stephan Pfletschinger, CTTC (Centre Tecnològic de Telecomunicacions de Catalunya), Spain WWRF14, 07-08 July 2005, San Diego, US</p>
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<p>Method for Mapping Data Packets onto Physical Layer Resource Units in an Adaptive Transmission System E. Costa, P. Trifonov and E. Schulz, Siemens, Germany WWRF14, 07-08 July 2005, San Diego, US</p>
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Wideband radio propagation characteristics at 5,3 GHz in suburban environments Terhi Rautiainen, Kimmo Kalliola, Juha Juntunen, Nokia, Finland 16 th IEEE International Symposium on Personal Indoor and Mobile Radio Communications (PIMRC), 11 – 14 September 2005, Berlin, Germany
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<p>Joint Routing and Packet Scheduling for enhanced Uplink UTRA-FDD with Fixed Relay Stations Yajian Liu, Hoshyar Xinjie Yang, Rahim Tafazolli, University of Surrey, UK VTC 2005 Fall Conference, 25-28 September 2005, Dallas, US</p>
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<p>Improved diversity on the uplink of multi-user MIMO systems Veljko Stankovic and Martin Haardt, Ilmenau University of Technology, Germany European Conference on Wireless Technology, 03-04 October 2005, Paris, France</p>
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Contributions to CEPT ECC PT1
Document ECC PT1(05)xyz: Input to the European response to ITU-R "Questionnaire on the services and market for the future development of IMT-2000 and systems beyond IMT-2000" from WINNER project CEPT ECC PT1 Meeting, 12-14 January 2005, Uppsala, Sweden
Document ECC PT1(05)014: Proposed modifications to "working document towards methodology for calculation of spectrum requirements for the future developments of imt-2000 and systems beyond IMT-2000 from the year 2010 onwards CEPT ECC PT1 Meeting, 12-14 January 2005, Uppsala, Sweden
Document ECC PT1(05)015: RAT group approach For spectrum requirements calculation methodology CEPT ECC PT1 Meeting, 12-14 January 2005, Uppsala, Sweden
Document ECC PT1(05)016: Further information on required radio parameters for the spectrum requirement calculation methodology CEPT ECC PT1 Meeting, 12-14 January 2005, Uppsala, Sweden
Document ECC PT1(05)017: Estimation of Packet Size statistics for evolved and new services in IMT-2000 and systems beyond IMT-2000 CEPT ECC PT1 Meeting, 12-14 January 2005, Uppsala, Sweden
Document ECC TG3#8_41R0: Consequences from UWB to the Preferred Spectrum Range for Systems Beyond IMT-2000 ECC TG3 Meeting, 26-29 April 2005, Helsinki, Finland
Document ECC PT1(05)xxx: UWB and Possible Candidate Bands for Systems Beyond IMT-2000

CEPT ECC PT1 Meeting, 09-12 May 2005, Biel, Switzerland
Document ECC PT1(05)xxx: Proposed radio parameter values of RAT Group 2 for Preliminary Draft New Report [Imt.Rad.Aspects] and spectrum calculation methodology CEPT ECC PT1 Meeting, 09-12 May 2005, Biel, Switzerland
Document ECC PT1(05)085: Test case and validation results for spectrum requirements calculation methodology. CEPT ECC PT1 Meeting, 09-12 May 2005, Biel, Switzerland
Document ECC PT1(05)086: Update of Required Radio Parameters for the Spectrum Requirements Calculation Methodology. CEPT ECC PT1 Meeting, 09-12 May 2005, Biel, Switzerland
Document ECC PT1(05)087: Initial version of the tool for calculating the spectrum requirements for future development of IMT-2000 and systems beyond IMT-2000 and the usage instructions for the tool.
Document ECC PT1(05)088: Proposed editorial update, corrections and modifications to "working document towards methodology for calculation of spectrum requirements for the future development of imt-2000 and systems beyond IMT 2000 from the year 2010 onwards". CEPT ECC PT1 Meeting, 09-12 May 2005, Biel, Switzerland
Document ECC PT1(05)089: Traffic distribution to rat groups and radio environments in the Methodology for calculating the spectrum requirements for the future development of IMT-2000 and systems beyond IMT-2000. CEPT ECC PT1 Meeting, 09-12 May 2005, Biel, Switzerland
Document ECC PT1(05)090: Proposed redefinition of mobility classes and mapping to radio environments in [IMT.METH]. CEPT ECC PT1 Meeting, 09-12 May 2005, Biel, Switzerland
Document ECC PT1(05)091: Proposed Radio Parameter Values for RAT Group 1. CEPT ECC PT1 Meeting, 09-12 May 2005, Biel, Switzerland
Document ECC PT1(05)092: Proposed radio parameter values of RAT Group 2 for Preliminary Draft New Report [Imt.Rad.Aspects] and spectrum calculation methodology. CEPT ECC PT1 Meeting, 09-12 May 2005, Biel, Switzerland
Document ECC PT1(05)093: Proposal for an alternative traffic class definition in the scenario framework of PDNR [IMT.METH]. CEPT ECC PT1 Meeting, 09-12 May 2005, Biel, Switzerland
Document ECC PT1(05)094: Consequences from UWB to the Preferred Spectrum Range for Systems Beyond IMT-2000. CEPT ECC PT1 Meeting, 09-12 May 2005, Biel, Switzerland
Contributions to ITU-R WP8F
Document 8F/374-E: Further Information on Required Radio Parameters for the Spectrum Requirement Calculation Methodology. ITU-R WP8F Meeting 15, 01-08 February 2005, Geneva, Switzerland
Document 8F/375-E: RAT Group Approach for Spectrum Requirements Calculation Methodology. ITU-R WP8F Meeting 15, 01-08 February 2005, Geneva, Switzerland
Document 8F/379-E: Proposed modifications to "Working document towards methodology for calculation of spectrum requirements for the future development of IMT-2000 and systems beyond IMT-2000 from the year 2010 onwards".

ITU-R WP8F Meeting 15, 01-08 February 2005, Geneva, Switzerland
Document 8F/399-E: Extended and Amended Sensitivity analysis of the algorithm for calculation of the system capacity required to fulfil mean delay and delay percentile requirements ITU-R WP8F Meeting 15, 01-08 February 2005, Geneva, Switzerland
Document 8F/405-E: Estimation of IP Packet Size Statistics for Evolved and New Services in IMT-2000 and Systems Beyond IMT-2000. ITU-R WP8F Meeting 15, 01-08 February 2005, Geneva, Switzerland
Document 8F/xyz: Input to the ITU-R "Questionnaire on the services and market for the future development of IMT-2000 and systems beyond IMT-2000" from WINNER project ITU-R WP8F Meeting 15, 01-08 February 2005, Geneva, Switzerland
Document 8F/xyz: Test case for spectrum requirement calculation methodology ITU-R WP8F Meeting 15, 01-08 February 2005, Geneva, Switzerland
Document 8F/WIN2-E: Test case and validation results for spectrum requirement calculation methodology Ericsson, Nokia, Siemens, RWTH Aachen University and VTT ITU-R WP8F Meeting 16, 26 April 2005, Geneva, Switzerland
Document 8F/WIN3-E: Proposal for an alternative traffic class definition in the scenario framework of PDNR [IMT.METH] Ericsson, RWTH Aachen University ITU-R WP8F Meeting 16, 26 April 2005, Geneva, Switzerland
Document 8F/XXX-E: Initial version of a tool for calculating the spectrum requirements for the future development of imt-2000 and systems beyond IMT-2000 and the usage instructions for the tool Ericsson, Nokia, Siemens, RWTH Aachen University and VTT ITU-R WP8F Meeting 16, 26 April 2005, Geneva, Switzerland
Document 8F/XXX-E: Proposed editorial update, corrections and modifications to "working document towards methodology for calculation of spectrum requirements for the future development of imt-2000 and systems beyond IMT-2000 from the year 2010 onwards" Ericsson, Nokia, Siemens, RWTH Aachen University and VTT ITU-R WP8F Meeting 16, 26 April 2005, Geneva, Switzerland
Document 8F/XXX-E: Proposed handling of mobility classes and radio environments in spectrum requirements calculation methodology Ericsson, Nokia, Siemens, RWTH Aachen University and VTT ITU-R WP8F Meeting 16, 26 April 2005, Geneva, Switzerland
Document 8F/XXX-E: Update of Required Radio parameters and Proposed parameter values of RAT Group 1 Ericsson, Nokia, Siemens, RWTH Aachen University and VTT ITU-R WP8F Meeting 16, 26 April 2005, Geneva, Switzerland
Document 8F/XXX-E: Traffic distribution to rat groups and radio environments in the Methodology for calculating the spectrum requirements for the future development of IMT-2000 and systems beyond IMT-2000 Ericsson, Nokia, Siemens, RWTH Aachen University and VTT ITU-R WP8F Meeting 16, 26 April 2005, Geneva, Switzerland
Document 8F/XXX-E: WINNER Draft Excel Tool

Ericsson, Nokia, Siemens, RWTH Aachen University and VTT ITU-R WP8F Meeting 16, 26 April 2005, Geneva, Switzerland
Document 8F/XXX-E: Possible Impact of UWB on Candidate Frequency Bands for “Systems Beyond IMT-2000” in the Frequency Range below 6 GHz Ericsson, Nokia, Siemens, CTTC ITU-R WP8F Meeting x, when? 2005, Geneva, Switzerland
Document 8F/XXX-E: Update OF the Tool for calculating the spectrum requirements for future development of IMT-2000 and systems beyond IMT-2000 - Update of the usage instructions for the tool Ericsson, Nokia, ITU-R WP8F Meeting x, when? 2005, Geneva, Switzerland
Document 8F/463-E: Proposal for an alternative traffic class definition in the scenario framework of PDNR IMT.METH. ITU-R WP8F Meeting 16, x-y June 2005, Quebec, Canada
Document 8F/464r1-E: Traffic distribution to RAT groups and radio environments in the Methodology for calculating the spectrum requirements for the future development of IMT-2000 and systems beyond IMT-2000. ITU-R WP8F Meeting 16, x-y June 2005, Quebec, Canada
Document 8F/465-E: Proposed definition of mobility classes and mapping to radio environments in [IMT.METH]. ITU-R WP8F Meeting 16, x-y June 2005, Quebec, Canada
Document 8F/482-E: Proposed radio parameter values of RAT group 2 for preliminary draft new report [IMT.RAD.ASPECTS] and spectrum calculation methodology. ITU-R WP8F Meeting 16, x-y June 2005, Quebec, Canada
Document 8F/483-E: Initial version of the Tool for calculating the spectrum requirements for future development of imt-2000 and systems beyond IMT-2000 and usage instructions for the tool. ITU-R WP8F Meeting 16, x-y June 2005, Quebec, Canada
Document 8F/484-E: Proposed radio parameter values for RAT Group 1. ITU-R WP8F Meeting 16, x-y June 2005, Quebec, Canada
Document 8F/485-E: Update of required Radio parameters for the spectrum requirements calculation methodology. ITU-R WP8F Meeting 16, x-y June 2005, Quebec, Canada
Document 8F/486-E: Proposed editorial update, corrections and modifications to “working document towards methodology for calculation of spectrum requirements for the future development of imt-2000 and systems beyond IMT 2000 from the year 2010 onwards”. ITU-R WP8F Meeting 16, x-y June 2005, Quebec, Canada
Document 8F/495-E: Test case and validation results for spectrum requirement calculation methodology. ITU-R WP8F Meeting 16, x-y June 2005, Quebec, Canada
Document 8F/526-E: Possible Impact of UWB on Candidate Frequency Bands for “Systems Beyond IMT-2000” in the Frequency Range below 6 GHZ. ITU-R WP8F Meeting 16, x-y June 2005, Quebec, Canada
Contributions to 3GPP

TDoc RX-05xxxx: Spatial Radio Channel Models for Systems Beyond 3G 3GPP Meeting, 30 – 31 May 2005, Quebec, Canada
TDoc RX-05xxxx: The WINNER project, and related resources available to 3GPP 3GPP Meeting, 30 – 31 May 2005, Quebec, Canada
IEEE802.11
MAC Amendment to IEEE802.11s Rui Zhao, Bernhard Walke, Michael Einhaus, RWTH Aachen University, Germany

6. Project web-site

The WINNER webpage (www.ist-winner.org) has been continuously updated with the latest project information.

7. Posters

For the exhibitions at the IST Mobile& Wireless Summit 2004 in Lyon and 2005 in Dresden a poster was created to show WINNER at a glance.



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poster&flyer\plakat_v



D:\dat\Winner\
poster&flyer\Poster V

8. Flyers / brochures

Two flyers have been produced which present basic project information.



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poster&flyer\Winner_



D:\dat\Winner\
poster&flyer\Flyer W'

9. Direct e-mailing / newsletter



D:\dat\coordination
team\WWI newslette



D:\dat\Dresden\
WWI newsletter Q22

10. Film/video

Currently no WINNER video is available.

