FEMTOCELL-BASED NETWORK ENHANCEMENT BY INTERFERENCE MANAGEMENT AND COORDINATION OF INFORMATION FOR SEAMLESS CONNECTIVITY

From 2010-01-01 to 2011-12-31, closed project | FREEDOM Website

Objective

Currently, femtocells and macrocells are seen as isolated networks, competing for the resources available in the common spectrum band, at the cost of injecting interference to the whole system. FREEDOM project will face key technical and industrial concerns about the foreseen mid-term massive deployment of femtocells by adopting a new approach based on cooperative/coordination paradigms, enabled by the limited ISP backhaul link. The project will not disregard the approach of isolated networks because it is met when there is not enough backhaul link connecting the femtocells and macrocell. In order to guarantee a strong focus and efficiency, FREEDOM will focus on: advanced interference-aware cooperative PHY techniques; improvement of the control plane procedures for seamless connectivity and system-level and hardware feasibility evaluation of the proposed femto-based network architecture.

Related information

Documents and Publications

Deliverable D6.2.1
Deliverable D5.2
Deliverable D2.3
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Subjects
Network technologies

Last updated on 2017-04-20
Retrieved on 2019-07-12

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