



P27: Fondazione Ugo Bordoni – FUB (Italy)

Description of expertise & activities

FUB is a non-profit organization involved in research activities related to the most advanced fields of communication technology. FUB has an agreement with Italian Ministero delle Comunicazioni according to the Italian law 3-2003. Concerning activities on optical networking and systems, FUB has a wide experimental knowledge on GbE networks, QoS and QoE measurements, IPTV and HDTV. Furthermore FUB has numerical tools for investigation on optical transmission systems and knowledge on xDSL and radio systems (FUB coordinated the Italian WiMax experimentation). At the moment the main activities of FUB, related to this proposal project, are WDM restoration in GbE networks, High bandwidth service performance, traffic engineering, MPLS/GMPLS, xDSL, Wifi, WiMax, PON, FTTx, VPN on demand.

Tasks within BONE

WP11	Restoration, traffic engineering, control plane, VPLS in the IP network test bed
WP12	Investigation on IPTV (HDTV), QoS measurements
WP13	Experiments on xDSL, FTTx, PON
WP14	Network architecture investigation, radio over fibre switching
WP15	Investigation on 100 Gb/s
WP21	QoS measurements
WP22	Tests on MPLS/GMPLS test bed
WP24	Edge node tests, control for the access network
WP25	Optical interconnects tests

Key personnel

Francesco Matera was born in Rome, Italy, on May 1, 1961. He received the Laurea degree in Electronics Engineering from the University La Sapienza in Rome, Italy, in 1985. In 1986, he was granted a fellowship at Fondazione Ugo Bordoni, Rome, Italy on optical fibers. Since 1988, he has been Researcher at Fondazione Ugo Bordoni where he works on nonlinear effects on optical fibres, on optical systems and optical networks. His main works are in the field of the optical transmission systems and optical networks. He was member of the European COST266 and was the scientific coordinator of European IST ATLAS project. He is the FUB coordinator of Optical Communication Group.

Luca Rea had his engineer degree on July 2005 in Sapienza (Roma). From September 15 2005 has a contract with FUB for researches on the IP network test bed.

Vittorio Baroncini: Education bacca Laureate in Physics, in digital electronics. Work experience began work in 1976 at the ITT R&D Laboratory of Pomezia (Italy). In 1986, began work at the Fondazione Ugo Bordoni (FUB), and moved to the TV group of FUB, with responsibility for the design of HW. At the same time, began participating in international standards work, by contributing to the works of the CCIR (now ITU-R) Committee. He is the designer new subjective evaluation methods.

Currently he is in the steering board of two prominent Working Parties in the ITU-R: chair of WP6Q (Performance assessment and quality control) and vice-chair of TG6/9 (Digital Cinema).

He is the technical responsible for the HDTV and D-Cinema projects in FUB.