GÉANT, the 10 Gpbs Pan-European Research Network, is providing advanced network services to the national research networks. In this context, to the QoS, Multicast and MPLS services already supplied, we can add IPv6, currently offered as a pilot service to those networks. In parallel, new projects such as CAESAR, EUMEDCONNECT and SEEREN respond to the aim of new interconnections and closer collaboration with the South American, Mediterranean and South Eastern European countries.