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News

Musicians perform in real-time across 2700 km network link

Thursday 16 June 2011 | 05:51 CET

Musicians have successfully publically played together in real-time, despite being located 2700 km away from each other. Using advanced multimedia software to reduce latency delays and powerful GARR, RedIRIS and Geant research networks, violinists performed Bela Bartok Suites for 2 violins while located at both the Gran Teatre del Liceu in Barcelona and the Conservatorio di Musica Giuseppe Tartini in Trieste. The performance was made possible by the Low Latency (LOLA) project, developed by the Conservatorio di Musica Tartini, Trieste, and the Italian research and education network GARR. It uses completely re-written audio and video transmission software to reduce latency and jitter, sending pictures and sound in real-time to give the impression to performers and audience that all musicians are in the same venue. The two sites were connected via a link that used the Conservatorio Tartini LAN, the Trieste Lightnet Metropolitan Optical Network, the GARR backbone, Geant, the Spanish RedIRIS research network backbone, the AnellaCientífica network, managed by the Centre de Supercomputacio de Catalunya (CESCA) in Barcelona, and the Gran Teatre del Liceu link to Anella Científica. The performance was routed via Madrid.

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