

You are here - Home › Editorial › News Releases

## Musicians Perform In Perfect Harmony Across 2700km Network Link

RnM Team 16 Jun 11 17:40 IST

MUMBAI: Musicians have successfully publically played together in real-time, despite being located 2700km away from each other. Using advanced multimedia software to reduce latency delays and powerful GARR, RedIRIS and GÉANT 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, part of the TERENA Network Performing Arts Production Workshop, 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 both performers and the audience that all musicians are in the same venue. The aim of the project is to enable greater musical collaboration and save valuable time and cost when bringing together musicians to rehearse and play together. Achieving this level of performance requires high speed, reliable and very stable networks providing guaranteed bandwidth of up to 500 Mbps. The public Internet cannot deliver this level of quality, introducing significant latency into the process – disastrous for successful performances. These demanding requirements can currently only be met by using research networks, such as GARR in Italy, RedIRIS in Spain and the pan-European GÉANT network, which links the two together.

“As musicians we want to collaborate with our colleagues wherever they are located and were frustrated that the Internet couldn’t provide the level of performance that we needed. The LOLA project is very exciting as it combines specially optimised software with high speed, robust, end-to-end networks to enable us to work together in real-time – it feels like everyone is in the same studio for both musicians and the audience,” said Massimo Parovel, director, Conservatorio di Musica Giuseppe Tartini, Trieste. “The success of our violin performance between Barcelona and Trieste shows the limitless potential for musical collaboration which LOLA brings to the world of performing arts. Working with GARR and GÉANT has been vital in achieving our vision now and moving forward.”

The 10 minute concert featured Sebastiano Frattini and Laura Agostinelli. The two sites were connected using an end-to-end link that used the Conservatorio Tartini LAN, the Trieste Lightnet Metropolitan Optical Network, the GARR backbone, GÉANT, the Spanish RedIRIS research network backbone, the



### Related stories

- MTV Networks & TNS Media Research partner to ...
- Next New Networks, Verizon Launch \$99 Music V...
- Sara Michieletto (Violin)
- GNi Hits the Mark with Music Mogul Inc.
- Vineet Hukmani: Radio One is the only station...

Login | Not a Member? Register NOW !

### LEADERSHIP



**'We are working with more than 80% of top media brands'**

**SHAILESH KAPOOR**  
Ormax Media,  
co-founder and CEO

- RAJEETA HEMWANI
- JASPER DONAT

**12 Most Prestigious Awards @ IRF 2011**



Latest News

30 Jun 11

- Pop Music Star Lance Bass Launches Weekly Sho...
- 9XM plans a series of initiatives in the digi...
- Music maestro Bhupen Hazarika hospitalised
- Plug in to the music of Murder 2 on Hungama.c...
- Mirchi's cool dad meets Big B!

Comments: 0

[A+](#) | [A-](#) Set Default

[Add to Favorites](#) | [Print](#) | [Share](#) | [Email](#)

**Add Comment**

No Comments Found for this Story

Contact Us | About RnM | Advertise with us

Site best viewed in IE6, Firefox2 and above with resolution 1024X768 Pixels  
Conceived, created and maintained by Indiantelevision Dot Com Pvt Ltd, | Disclaimer  
© Copyrights; Radioandmusic.com, 2011. All rights reserved!