



DataTAG Demonstrations for Innovating for Tomorrow

CERN

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH



Land Speed Record

CERN & Caltech will demonstrate multi-Gigabit/second file transfers between Palexpo and Chicago with a possible extension to Los Angeles. The main purpose is to establish new land speed records, breaking the existing record of 2.38 Gb/s by a factor two at least, and also to demonstrate alternative transport protocols such as FAST, Grid DT, Scalable TCP and high speed TCP.

Joint sessions with Internet2 fall member meeting in Indianapolis

Wednesday, 15th October: Direct participation in the Performance Engineering session.

Thursday 16th October: Panel discussion with Doug van Houveliing, CEO of Internet2/UCAID in the US, and participants at Palexpo.

Award Ceremony for the Internet2 Landspeed Record.

Advanced Photonic Networking

This demo between Northwestern University and CERN will also showcase SABUL/VDT as an alternative to traditional TCP-based transport solutions (Monday, Tuesday, Wednesday).

VRVS (Virtual Room Videoconferencing System)

will be used by all of the above demos. VRVS is a high quality videoconferencing system that runs over IP networks. It features flexible and immediate availability for conference scheduling through the virtual rooms function. VRVS will also be demonstrated separately with active participation from several sites worldwide.

MONALISA

A scalable dynamic realtime global monitoring system, developed by Caltech, will be used to visualize the high speed trans-Atlantic data traffic.

Demonstration of the GRID for Physics Analysis

Grid analysis demo between Caltech, CERN, KEK (Japan), Sinica (Taiwan), NUST (Pakistan), UERJ (Rio de Janeiro), PUB (Bucharest).

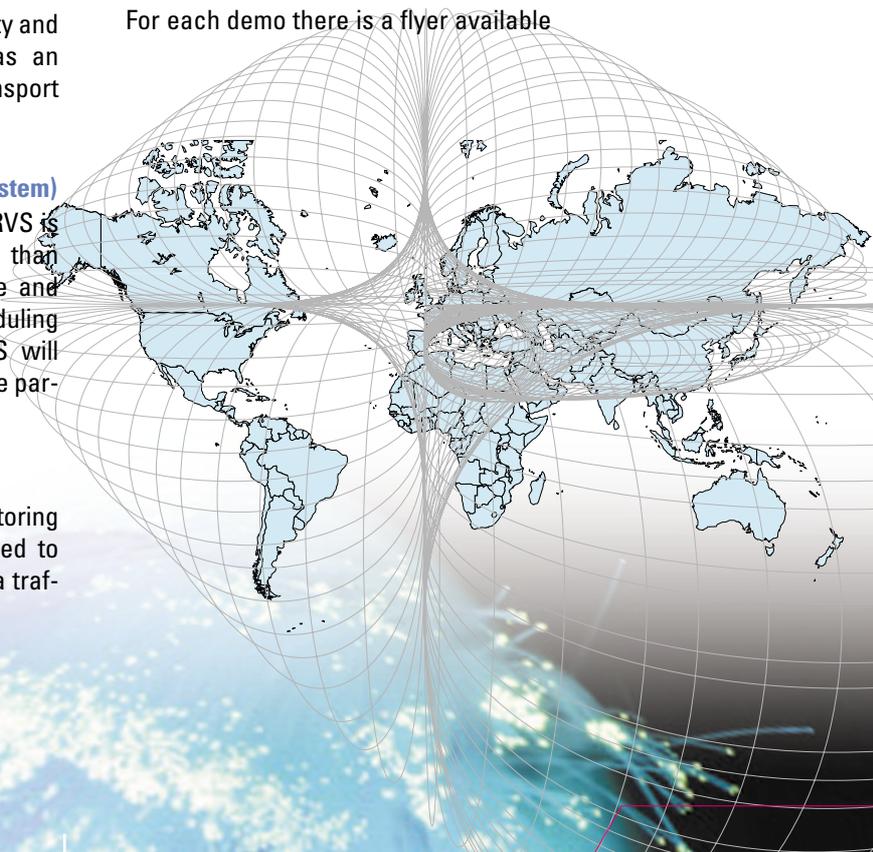
Gigabit/second Trans-Atlantic Communications Testbed

On behalf of the [EU DataTAG Project](#), the 10 Gb/s trans-Atlantic testbed will be physically extended to Palexpo. Thanks to various sponsors this extended testbed should be the largest distributed 10 Gigabit Ethernet deployment demonstrated so far.

10 Gigabit per second Ethernet to Canada

Demonstrations of 10 Gigabit Ethernet between CERN and Canada on another 10 Gb/s path through Amsterdam and Chicago will also be attempted. These demos should nicely complement the Caltech, CERN, Northwestern University demos.

For each demo there is a flyer available



<http://www.cern.ch/>