MEDIA INFORMATION

Leipzig, Germany, June 17, 2013

World premiere for turbocharged data speed: industry and researchers use applications and IT via 400 gigabit connection

- State-of-the-art technology deployed for computing-intensive tasks
- Future-proof data networks for the cloud, social media and big data

_____

50 gigabytes of data per second across vast distances: A collaboration of industry and research co-managed by T-Systems and Alcatel-Lucent, introduced at this year's International Supercomputing Conference in Leipzig, showed the way ahead. Optical data transmission at top performance levels, combined with high-speed flash memory technologies and a distributed high-performance file system, allow applications to communicate with one another using a 400 Gbit/s data path in a world premiere. The demonstration proved that data-intensive projects can be distributed and processed effectively even over great distances. It also opens up new opportunities for data security in the event of a disaster.

Developments such as cloud computing, social media and big data are driving the expansion in worldwide data traffic. According to forecasts, the core Internet infrastructure will have to deal with data volumes in 2015 that are ten times higher than in 2010. In turn, this demands more powerful data networks. In the project, high-performance connections are used to exchange data between Dresden, Munich and Hamburg for two computing-intensive tasks involving distributed databases and multi-step data processing in the area of climate research and turbine development. With this approach, close cooperation between distant data centers is being tested under real conditions,

along with new potential applications for large bandwidths. The progress achieved to date represents a major milestone for future-proof data networks.

The project participants are Alcatel-Lucent, Barracuda Networks, Bull, Clustervision, German Aerospace Center (DLR), EMC, IBM, Leibniz Supercomputing Center, Max Planck Institute for Meteorology, Mellanox, Garching Computing Center of the Max Planck Society, Telekom Innovation Laboratories, T-Systems, Center for Information Services and High Performance Computing at TU Dresden.

Deutsche Telekom AG
Corporate Communications

Tel.: +49 228 181 – 4949
E-Mail: media@telekom.de

Further information for the media at: www.telekom.com/media and www.telekom.com/photos

About Deutsche Telekom
Deutsche Telekom is one of the world's leading integrated telecommunications companies with 133 million mobile customers, 32 million fixed-network lines and more than 17 million broadband lines (as of March 31, 2013). The Group provides products and services for the fixed network, mobile communications, the Internet and IPTV for consumers, and ICT solutions for business customers and corporate customers. Deutsche Telekom is present in around 50 countries and has 230,000 employees worldwide. The Group generated revenues of EUR 58.2 billion in the 2012 financial year – more than half of it outside Germany (as of December 31, 2012).

About T-Systems
Drawing on a global infrastructure of data centers and networks, T-Systems operates information and communication technology (ICT) systems for multinational corporations and public sector institutions. T-Systems provides integrated solutions for the networked future of business and society. The company's some 52,700 employees combine industry expertise and ICT innovations to add significant value to customers' core business all over the world. T-Systems generated revenue of around EUR 10 billion in the 2012 financial year.