

# UNICORE –A European Grid Technology

*Thursday, 31 January 2008 13:45 (40 minutes)*

The development of UNICORE started back in 1997 with two projects funded by the German ministry of education and research (BMBF). UNICORE is a vertically integrated Grid middleware, which provides a seamless, secure, and intuitive access to distributed resources and data and provides components on all levels of a Grid architecture from an easy-to-use graphical client down to the interfaces to the Grid resources. Furthermore, UNICORE has a strong support for workflows while security is established through X.509 certificates. Since 2002 UNICORE is continuously improved to mature production ready quality and enhanced with more functionalities and standards in several European projects. Today UNICORE is used in several national and international Grid infrastructures like D-Grid and DEISA and is also providing access to the national Supercomputer of the NIC in Germany. The presentation includes a detailed introduction to the current version 6, which has a Web Services (WS-RF 1.2, SOAP, WS-I) stack and implements several open standards like XACML, SAML, OGSA-RUS, OGSA-BES, JSDL, DRMAA, OGSA-ByteIO and others. The European UNICORE Grid Technology is available as Open Source from <http://www.unicore.eu>

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