



Newsletter in SEE

In this newsletter:

- 6DISS workshop in SEE [page 1]
- SEE IPv6 Workshop: Exploring the experiences in Research Networking [page 2]
- 6DISS "Training the Trainers" Courses [page 3]
- 6DISS Workshop Malta '06 [page 4]
- IPv6 Training Material CD-ROM [page 4]

Partners: Martel Consulting, Alcatel CIT, Cisco Systems International BV, Fundação para a Computação Científica Nacional, Greek Research & Technology Network, Hungarian Research & Education Network, Réseau National de Telecommunication pour la Technologie, l'Enseignement et la Recherche, Trans-European Research and Education Networking Association, University College London, University of Southampton

6DISS Technical Workshop in South Eastern Europe Kopaonik, Serbia & Montenegro

On 3-4 March, the 6DISS training workshop in South East Europe took place in Kopaonik (Serbia & Montenegro), co-organized by the 6DISS partners GRNET and NIIF/HUNGARNET, and AMREJ (local NREN). The workshop took place in conjunction with the EC FP6 SEEREN2 and SEE-GRID project meetings. In addition, YU INFO 2006, one of the most significant IT conferences in Serbia & Montenegro, was held at the same location.

The 6DISS workshop brought together the regional research, academic and commercial community with the aim to raise awareness and provide technical training on IPv6 technology. It was also an opportunity to strengthen binds between local engineers and stimulate future collaboration.

The technical presentations covered the following topics:

- Introduction to IPv6
- IPv6 Associated Protocols
- IPv6 Addressing
- IPv6 Auto-configuration
- IPv6 Routing Protocols (BGP, OSPFv3)
- IPv6 DNS
- IPv6 Management Tools
- IPv6 Applications
- QoS
- Security Issues and Firewalls

The theoretical presentations were followed by "hands-on" (practical) sessions at the local PC-based lab and the 6DISS remote lab in Brussels. The local lab was used for basic IPv6 exercises using the WinXP operating system while networking services, and management tools were installed and configured at local Linux

servers. The remote lab in Brussels was used for training related to routing protocols, such as BGP and OSPFv3. The material presented in the 6DISS technical workshop was determined in close collaboration with the local community while the "hands-on" sessions lasted almost 50% of the overall time.

More than 35 engineers from the research and academic community of the region, as well as from commercial companies, participated in the workshop. The majority of the attendees had some experience on IPv6 technology, and a small portion of them had already operational experience from the management of the South East European Research & Education Network - SEEREN. There were also participants from commercial ISPs that consider offering IPv6 services to their customers. The workshop was favorably evaluated by the participants.

The 6DISS workshop constitutes part of the efforts for the development of advanced e-infrastructures in SE Europe. The SEEREN and 6NET EC-funded projects have closely collaborated to introduce IPv6 interconnection services in the regional network. Today, the SEEREN2 and 6DISS projects successfully continue this effort.

More information:

<http://www.seeren.org/6diss-see>



**SEE IPv6 Workshop: Exploring the experiences in Research Networking
March 5th, 2006**

The one-day workshop “International Workshop on IPv6 Technology: Exploring the Experiences in Research Networking” (<http://www.seeren.org/6diss/>) followed the 6DISS training workshop in SEE, on March 5th; it provided an opportunity for SEE engineers to share their experiences gained by IPv6 deployments in research and education networks in the SEE region. The 6DISS organizers invited all NRENS – including their interconnected academic / research institutes – to present IPv6 related activities. In addition, a Call for Papers was published inviting researchers to submit papers reporting on original research, experiment results and experiences.

The Deputy Minister (science and environmental protection of Serbia) Cedomir Suljagic participated in the opening of the “International Workshop on IPv6 Technology”. The workshop was divided in three sessions:

- Session A: IPv6 Technology & New Opportunities
 - IPv6 technology and new services
 - Experiences from the Verat.net project
 - The 6DISS Project: IPv6 Dissemination & Exploitation EU-IST Call 6 EU Framework Programme 7
 - IPv6 achievement in GEANT
- Section B: IPv6 Advancements in South East Europe
 - IPv6 activities in SEEREN2
 - IPv6 activities in Serbia & Montenegro
 - IPv6 activities in Greece
 - IPv6 activities in Bulgaria
- Section C: Technical Presentations
 - IPv6 deployment in the Greek School Network
 - IPv6 Transition Mechanisms, their Security and Management
 - IPv6 over xDSL: The DIODOS Proposal

The workshop was supported by the SEEREN2 (<http://www.seeren.org/>) and SEE-GRID (<http://www.see-grid.org/>) projects and sponsored by Cisco Systems, EUnet, and Spinaker.

More information:
<http://www.seeren.org/6diss>



IPv6: The new technology that overcomes limitations of today Internet and changes the way we communicate

Unlimited Address Space • Security • Mobility • Multicast

IPv6

www.6diss.org

- 6DISS workshop in South Eastern Europe 3 - 4 March, 2006
- International Workshop on IPv6 Technology 5 March, 2006

Kopaonik, Serbia & Montenegro

Enable IPv6 on your network **today!**

6DISS "Training the Trainers" Courses

The 6DISS project, further to its dissemination workshops which constitute part of its major activities, and in order to further raise awareness and stimulate the use of IPv6 technology, plans a series of "Training the Trainers" courses. The courses aim to train other people who will support the 6DISS goals by disseminating information regarding IPv6 technology.

The "Training the Trainers" courses will be addressed to people willing to teach knowledge and share experiences on IPv6; it will also address potential tutors and organizers of future workshops.

In order to participate in the "Training the Trainers" workshops, the potential tutors should have good theoretical knowledge and some practical experience on IPv6 technology. The participants must also study other 6DISS documents, such as the "Training the Trainers" toolkit, which contains guidelines regarding the fundamentals of teaching, guidelines on how to organize a workshop on IPv6, information on where to find the latest workshop module material, etc.

The courses participants can potentially be University lecturers, IPv6 Task Forces (TF) members, Network Operation Centers (NOC) personnel of National R&E Networks (NRENS), technical trainers from Telcos and Internet Service Providers (ISPs), vendors, RIR staff, etc. In an effort to extend the target audience, the project provides the opportunity to a limited group of experts from other EU-funded projects that 6DISS has already estab-

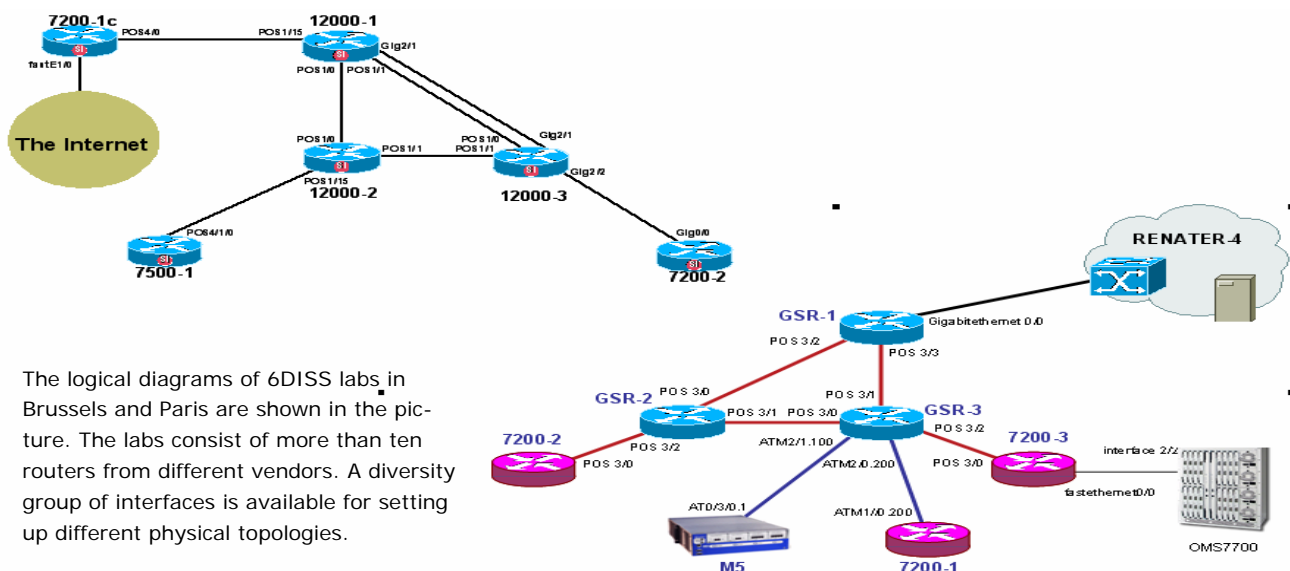
lished synergies with (e.g. SEEREN-2) to attend the training activities. For the final selection of the courses participants, priority will be given to those who commit to organize a workshop as a follow-up activity. A favorable outcome of the selection procedure would be the formation of "regional groups" of 3-4 people (20 tutors in total).

The provisional 2-days training programme includes the following topics:

- basics of training
- how to organize a workshop (technical & logistic requirements, infrastructure, topics that will meet the participants' needs), followed by good examples of past events
- 6DISS tools (e-learning platform, helpdesk)
- 6DISS modules: obtain good understanding of what each module offers
- 6DISS e-learning course
- how to use the remote labs
- organizing a hands-on session: (not all the exercises need to be done in the training days - they can be done before/after and give us their feedback - but it is important that they appreciate what exercises can be achieved in the time)
- explain the feedback questionnaire

Parallel practical sections will be organized on the 3rd day, using the local or remote labs. The practical sections will include a group of practical exercises, such as:

- basic PC/router configuration, routing, setting up access lists, etc.



The logical diagrams of 6DISS labs in Brussels and Paris are shown in the picture. The labs consist of more than ten routers from different vendors. A diversity group of interfaces is available for setting up different physical topologies.

6DISS Workshop in Malta '06 4-6 April 2006

The 6DISS project in collaboration with the Computing Services Centre at the University of Malta and the EUMEDCONNECT project, organized the Mediterranean IPv6 Workshop that took place in Malta on 4-6 April 2006.

The workshop was addressed to engineers from EUMEDCONNECT project partner institutions and provided practical hands-on training to facilitate IPv6 deployment on their networks.

The workshop covered the following topics:

Day 1: Enabling IPv6

- Theory I: Introduction to IPv6
- Theory II: Transition to IPv6
- Hands-On Exercise I
- Theory III: Applications
- Hands-On Exercise II

Day 2: Routing and Security

- Theory IV: routing
- Hands-On Exercise III
- Case Studies: Routing - Paris / Brussels
- Theory V: Security
- Hands-On Exercise IV

Day 3: IPv6 Management

- Theory VI: Monitoring and Network Management
- Theory VI: Monitoring and Network Management
- Hands-On Exercise V

The topics included practical hands-on sessions, along with access to a remote testbed for more complex configurations.

More information at:

<http://events.um.edu.mt/6diss/>



IPv6 Training Material CD-ROM

A CD-ROM containing multiple technical documents and open-source applications related to IPv6 technology was created in the 6DISS workshop in SE Europe. The content of the CD-ROM is:

6DISS E-learning module

IPv6 E-books (6NET cookbook, IPv6 ABCs by Cisco)

6NET technical documentation, e.g. basic and advanced services, applications, transitioning, management, etc

Workshop presentations in SEE

A complete set of 6DISS modules

A compilation of monitoring tools

A compilation of management tools

The image of the CD-ROM can be downloaded from the <http://www.seeren.org/6diss-see> web site.

Past events

- 1-2 June '06: IPv6 EU Expert Conference - Vienna, Austria

Forthcoming events

- 16-18 July: IPv6 DFI'06 - Silicon Valley, USA
- 26-30 June: ICANN Meeting—Marrakesh, Morocco
- 1-2 August '06: IPv6TD'06—Bucharest, Romania

Check on 6diss calendar: <http://www.6diss.org/calendar>