The 6DISS Project: IPv6 Dissemination and Exploitation
# Programme

<table>
<thead>
<tr>
<th></th>
<th>Objectives and Approach</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Key Data</td>
</tr>
<tr>
<td>3</td>
<td>The 6DISS Toolkit</td>
</tr>
<tr>
<td>4</td>
<td>World Tour Programme</td>
</tr>
<tr>
<td>5</td>
<td>Conclusion</td>
</tr>
</tbody>
</table>
Objectives

• To transfer knowledge on IPv6 deployment and usage to NRENs, Universities, commercial organisations, ISPs, governments and regulators in:
  • Asia Pacific Region  Soton-ECS
  • Mediterranean, Sub-Saharan Africa & Caribbean  RENATER
  • SE Europe  GRNET
  • Southern Africa  FCCN
  • South & Central America  TERENA, FCCN
  • Newly-Independent States  UCL
  • India & China  Soton-ECS, Martel
Objectives

- To build constituencies
- To raise awareness
- To exchange best practices
- To engage the organisations in future IST projects
To take the knowledge gained and the documented results from the EU project 6NET: http://www.6net.org

…and build a new (smaller) project, focused on sharing the experience in a practical way
At least 8 workshops will be given to disseminate information on:

- IPv6 Addressing and Routing
  - IPv6 deployment and migration strategies
  - Making network services ready for IPv6: DNS, DHCP, HTTPd, SMTP, …
  - IPv6-enabled applications
  - Monitoring and management tools
  - Multicast, Security, QoS, Renumbering, Mobility …
**Key Data**

- **Partners:**
  - Martel
  - Cisco Systems
  - Alcatel
  - Hungarnet
  - FCCN
  - Renater
  - UCL
  - University of Southampton

- **Start date:** 1st April 2005
- **Duration:** 30 months
- **Total cost:** € 1’053’265.00 (76.5PMs)
- **EC funding:** € 899’908.00
- **Type of project:** Specific Support Action
The 6DI SS Toolkit

- Workshops
  - (slideware + access to remote labs)
- E-learning package
- Training the Trainers manual and courses
- Tiger Team
- Website
400 slides inherited from the G6 Group and RENATER

6DISS partners then:
- harmonised the style
- reviewed the content
- added new topics/modules (provided by partners)
- split them into 20 modules
  - More convenient to handle and update
  - Easier to build up a workshop programme selecting the appropriate modules.

- Each module has an owner, responsible for the updates
- Modules continue to be added or expanded (eg. lab exercises, deployment scenarios, applications, ...)
# 6DI SS Toolkit - “Slideware”

<table>
<thead>
<tr>
<th>Module Topic</th>
<th>Partner responsible</th>
<th>Module Topic</th>
<th>Partner responsible</th>
</tr>
</thead>
<tbody>
<tr>
<td>6DI SS presentation</td>
<td>Martel</td>
<td>IPv6 DNS</td>
<td>FCCN</td>
</tr>
<tr>
<td>IPv6 Introduction</td>
<td>RENATER</td>
<td>IPv6 Routing protocols</td>
<td>FCCN</td>
</tr>
<tr>
<td>IPv6 Protocol</td>
<td>RENATER</td>
<td>RPSLng</td>
<td>FCCN</td>
</tr>
<tr>
<td>IPv6 Addressing</td>
<td>RENATER</td>
<td>IPv6 Security</td>
<td>UCL</td>
</tr>
<tr>
<td>IPv6 Addressing case studies</td>
<td>HUNGARNET/RENATER</td>
<td>IPv6 Mobility</td>
<td>Cisco</td>
</tr>
<tr>
<td>IPv6 Associated protocols</td>
<td>RENATER</td>
<td>IPv6 - IPv4 Co-existence</td>
<td>Soton-ECS</td>
</tr>
<tr>
<td>IPv6 Network Management</td>
<td>RENATER</td>
<td>Deployment scenarios</td>
<td>HUNGARNET</td>
</tr>
<tr>
<td>IPv6 Multicast</td>
<td>RENATER</td>
<td>IPv6 Applications</td>
<td>UCL</td>
</tr>
<tr>
<td>M6Bone</td>
<td>RENATER</td>
<td>Equipment configuration</td>
<td>HUNGARNET</td>
</tr>
<tr>
<td>IPv6 Autoconfiguration</td>
<td>FCCN</td>
<td>IPv6 QoS</td>
<td>GRNET</td>
</tr>
</tbody>
</table>
6DI SS Toolkit - Access to remote labs

Brussels lab

IPv6 Internet

IPv6 Tunnel

Internet
6DI SS Toolkit - Access to remote labs

Paris lab

- POS / STM-1
- GE
- FE

RENATER-4

GSR-1

GSR-2

GSR-3

7200-2

7200-3

ALCATEL
6DISS Toolkit - Reserving the labs

Booking and usage procedures...

- http://www.6diss.org/labs
- labs@6diss.org
# RENATER Testbed availability

Testbed is already booked for the following dates and events:

<table>
<thead>
<tr>
<th>Dates:</th>
<th>Events:</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 12th - 24th 2005</td>
<td>CIREN IP multicast tutorial</td>
</tr>
<tr>
<td>December 14th - December 27th 2005</td>
<td>NOC-RENATER / tests COS</td>
</tr>
<tr>
<td>January 16th - January 20th 2006</td>
<td>6DISS meeting</td>
</tr>
<tr>
<td>January 23rd - January 27th 2006</td>
<td>NOC-RENATER / tests COS</td>
</tr>
<tr>
<td>January 30th - February 3rd 2006</td>
<td>6DISS review</td>
</tr>
<tr>
<td>February 6th - February 10th 2006</td>
<td>NOC-RENATER / tests COS</td>
</tr>
<tr>
<td>February 13th - February 20th 2006</td>
<td>EUMEDCONNECT multicast training</td>
</tr>
<tr>
<td>March 1st - March 5th 2006</td>
<td>6DISS workshop - South east Europe</td>
</tr>
<tr>
<td>March 6th - March 8th 2006</td>
<td>RENATER multicast workshop</td>
</tr>
<tr>
<td>April 3rd - 7th 2006</td>
<td>6DISS workshop - EUMEDCONNECT</td>
</tr>
</tbody>
</table>

In order to book the testbed, please, send an email to durand@renater.fr
6DISS Toolkit - E-learning package

Available from anywhere (accessible via http://www.6diss.org/e-learning)

Attractive content
- well-balanced combination of audio, graphical and animation components

Effectiveness is ensured through:
- an integrated instructional design, including a modular structure
- interactivity
- individual learning flexibility
- subtitles (http://web.instruxion.com/6diss/SubsDemo/6diss_ipv6.html)

The e-learning package is used:
- as a “teaser” for the workshops
- for assessing the suitability of participants for the workshops
- for training the trainers
We cannot visit each region often, but we can train other people to give our workshops.

“Training the Trainers” courses can be offered in Brussels or Paris, or at your location. A “Training the Trainers” manual is available, that comprises:

- 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
- An instructors’ guide to accompany each module
- Information on the e-learning package
- Information about the Tiger Team
- The feedback questionnaire
- Description of other material available from 6DI SS
The “Tiger Team” is a channel to experts (within or outside the project). It operates via a help desk service (helpdesk@6diss.org), concerning aspects such as:

- state-of-the-art, eg:
  - IPv6 IETF RFCs that are released or still in progress
  - IPv6 deployments
  - IPv6 applications
- how to configure equipment
- hardware and software requirements and releases
- transition scenarios
- management and monitoring tools
- applications
At www.6diss.org, you can find:

- All the presentations that have been made at the workshops and in conferences, reports from the workshops, deliverables, press releases, news, etc.
- A calendar of upcoming events especially related to IPv6, and the upcoming 6DI SS workshops
- The link to the e-learning package
- Links to related sites

Workshop hosts can also download the information they need regarding the organisational details.
World Tour Programme

Workshops held so far:

- Asia-Pacific Region: Taipei, Taiwan (IPv6 Summit, 08/2005)
- Southern Africa: Port Elizabeth (TENET IPv6 workshop, 09/2005)
- S-E Europe: Serbia/Montenegro (03/2006)
- Mediterranean Countries: Malta (04/2006)
- South & Central America: Ecuador (07/2006)
- Sub-Saharan Africa: Senegal (10/2006)

“Hands-on” practical sessions supported at:
- Afrinic-3: Cairo, Egypt (12/2005)
- AfriNIC-4: Nairobi, Kenya 05/2006)

“IPv6 Trainers’ session” in Belgium (10/2006)
Conclusions

6DISS aims to:

- assist less-developed regions to deploy the latest technology in the most efficient manner
- build contacts to organisations in these regions to support and enable their subsequent participation in projects within the IST Programme
- increase opportunities for EU manufacturers to open new - or enhance existing - markets in these developing regions
- make European research and industrial concerns aware of the highly skilled personnel who can contribute to the urgently needed improvement of ICT infrastructures
Conclusions

6DISS project is achieving its objectives well, but we know that there are lots of other related initiatives.

Cooperation, sharing information, ... is a must

So, if you are planning an event that includes IPv6 information dissemination, training, etc., do not hesitate to get in a touch with us.

Contact us through our Website (www.6diss.org), or send a mail to helpdesk@6diss.org