Information Society
Technologies

IPv6DISSemination and Exploitation
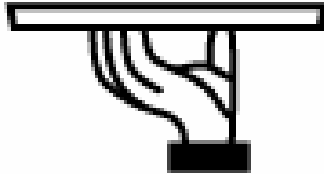
www.6diss.org

Martin Potts

Programme

1	**Objectives and Approach**
2	**Key Data**
3	**The 6DISS Toolkit**
4	**World Tour Programme**
5	**Conclusion**

Programme

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Objectives

- To transfer knowledge on IPv6 deployment and operation to NRENs, Universities, commercial organisations, ISPs, governments and regulators in:
  - Southern Africa & Sub-Saharan Africa
  - SE Europe
  - Mediterranean Countries
  - South America, Central America & Caribbean
  - Asia Pacific Region
  - Newly-Independent States in Central Asia
  - India & China

Objectives

- To raise awareness of IPv6
- To work with communities and organisations in the regions
- To exchange best practices
- To try and integrate the organisations into future European projects

Approach

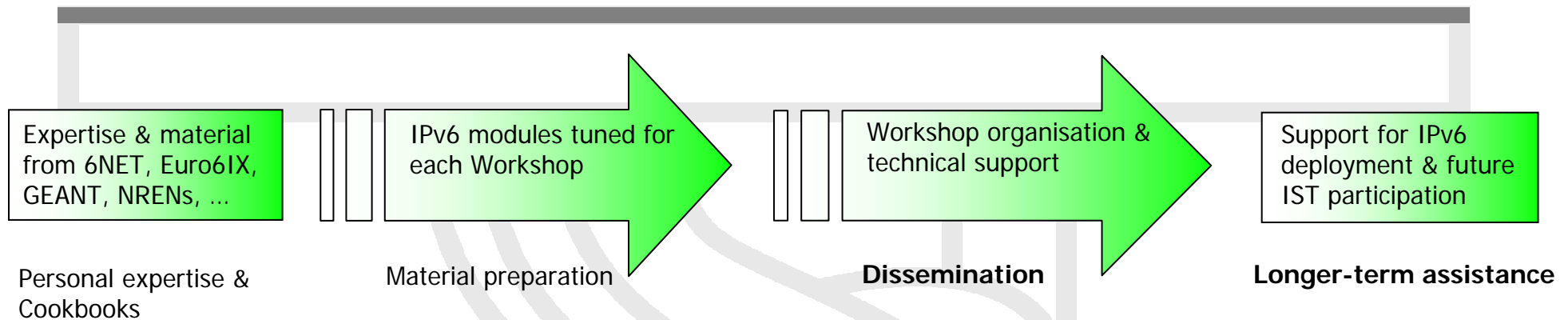To take the knowledge gained and the documented results from the EU projects 6NET: http://www.6net.org and

Euro6IX: http://www.euro6ix.org

... and build a new (smaller) project, focused on sharing the experience in a practical way

Approach

Information Society Technologies

| Expertise & material from 6NET, Euro6IX, GEANT, NRENs, ... | | IPv6 modules tuned for each Workshop | | Workshop organisation & technical support | | Support for IPv6 deployment & future IST participation |

Personal expertise & Cookbooks

Material preparation

Dissemination

Longer-term assistance

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 ...

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Key Data

- 10 Partners:

- Start date: 1st April 2005
- End date: 30th September 2007

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The 6DISS Toolkit

- Workshops
  - (slideware + access to remote labs)
- E-learning package
- Training the Trainers
- IPv6 Technical training
- Tiger Team (helpdesk@6diss.org)
- Website

6DISS Toolkit – "Slideware"

- 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, ...)
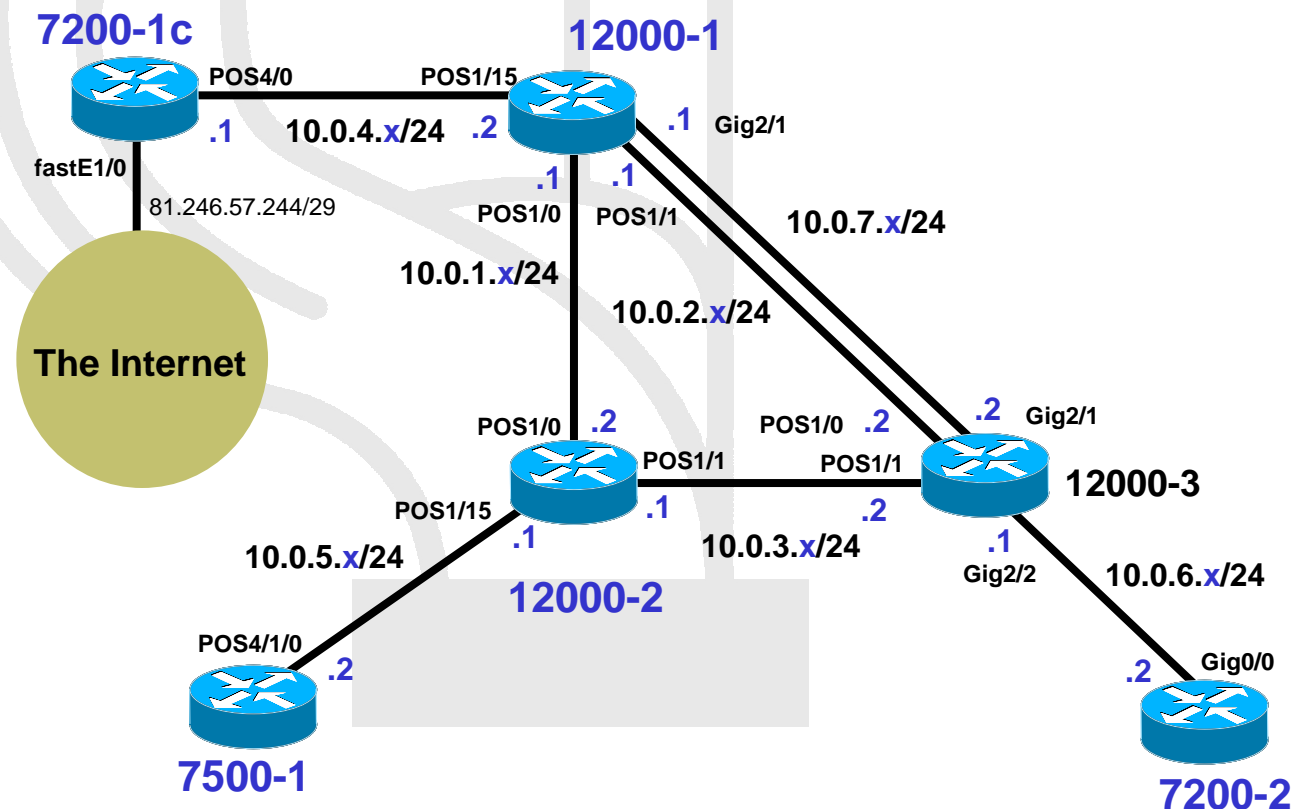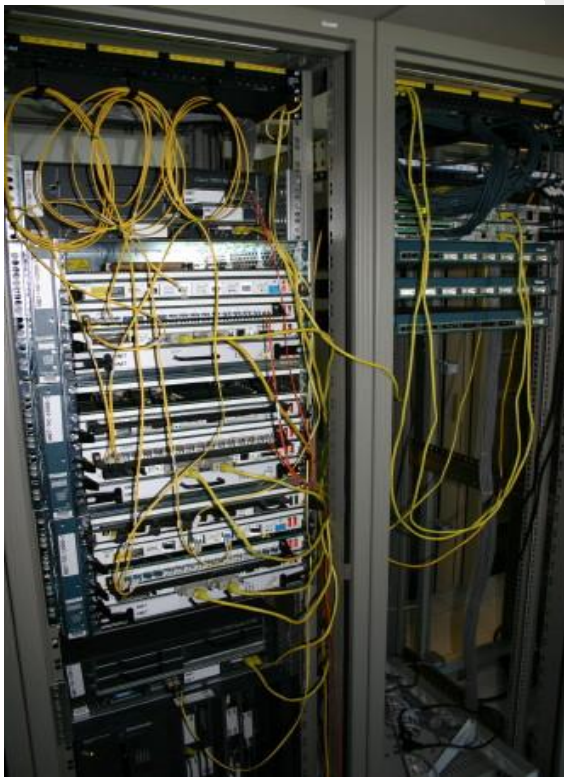
6DISS Toolkit – "Slideware"

Module Topic		Module Topic
6DISS presentation		IPv6 DNS
IPv6 Introduction		IPv6 Routing protocols
IPv6 Protocol		RPSLng
IPv6 Addressing		IPv6 Security
IPv6 Addressing case studies		IPv6 Mobility
IPv6 Associated protocols		IPv6 - IPv4 Co-existence
IPv6 Network Management		Deployment scenarios
IPv6 Multicast		IPv6 Applications
M6Bone		Equipment configuration
IPv6 Autoconfiguration		IPv6 QoS

6DISS Toolkit – Access to remote labs

Brussels lab

7200-1c POS4/0 POS1/15 **12000-1**
.1 **10.0.4.x/24** .2 .1 Gig2/1
fastE1/0 .1 .1
81.246.57.244/29 POS1/0 POS1/1 **10.0.7.x/24**

The Internet

10.0.1.x/24

10.0.2.x/24

POS1/0 .2 POS1/0 .2 Gig2/1
POS1/1 POS1/1 **12000-3**
POS1/15 .1 .2
.1 **10.0.3.x/24** .1
10.0.5.x/24 Gig2/2 **10.0.6.x/24**
12000-2

POS4/1/0 .2 .2 Gig0/0

7500-1 **7200-2**

6DISS Toolkit – Access to remote labs

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Paris lab

RENATER-4

Legend:
- ATM / STM-1
- POS / STM-1
- GE
- FE

GSR-1
GE 0/0

POS 3/2   POS 3/3

POS 3/0

GSR-2   POS 3/1   POS 3/0   **GSR-3**   POS 3/2

7200-2   POS 3/2   ATM 1/0 200   **7200-3**   **ALCATEL**

POS 3/0   ATM 2/0 200   POS 3/0   FE 2/2

AT0/3/0.1   FE 0/0

ATM 1/0 200

M5

7200-1

6DISS Toolkit – Reserving the labs

Lab booking and usage procedures…

- http://www.6diss.org/labs

- labs@6diss.org

Fichier   Edition   Affichage   Favoris   Outils   ?

Adresse   http://www.renater.fr/article.php3?id_article=190

Le Réseau National de télécommunications pour la Technologie l'Enseignement et la Recherche

Modifier cet article (190)   Recalculer cette page   visites : 419; popularité : 6

Accueil du site >Projets >Projets de recherche >6DISS

Rechercher

6DISS

6DISS project web site

IPv6 Helpdesk

RENATER Testbed availability

Testbed deployment

Offres d'emplois
Appels d'offres

Accès à l'ancien site web

RENATER Testbed availability

Testbed is already booked for the following dates and events :

Dates:	Events:
September 12th - 24th 2005	CIREN IP multicast tutorial
December 14th - December 27th 2005	NOC-RENATER / tests COS
January 16th - January 20th 2006	6DISS meeting
January 23rd - January 27th 2006	NOC-RENATER / tests COS
January 30th - February 3rd 2006	6DISS review
February 6th - February 10th 2006	NOC-RENATER / tests COS
February 13th - February 20th 2006	EUMEDCONNECT multicast training
February 20th - February 23rd 2006	NOC-RENATER / tests COS
February 24th - March 5th 2006	6DISS workshop - South east Europe
March 6th - March 8th 2006	RENATER multicast workshop
March 9th - March 24th 2006	NOC-RENATER / tests COS
March 25th - April 7th 2006	6DISS workshop - EUMEDCONNECT
June 5th - June 14th 2006	CIREN BGP tutorial
June 20th - July 7th 2006	6DISS/AfriNIC IPv6 Workshop

Annonces

Première pha déploiement de GEANT2

Projet TEIN2

Nouvelle sol de connectivité

Ouverture du domaine interne

Appels d'offres

Fourniture d liaisons et achat d'équipements e de France et à Cadarache

Formations

Manifestations

Journée Mob

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 (so far, only in Portuguese)

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

6DISS Toolkit – Training other Trainers

We only really have budget to visit each region once (8 workshops), 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 6DISS

6DISS Toolkit – Technical Training

We can also give specific technical training courses in Brussels, Paris – or on site. These courses can be tuned to local requirements:

Topics can include:

- IPv6 details
- Installing and configuring IPv6 on clients
- Installing and configuring IPv6 on routers
- IPv6 routing protocols
- IPv6 transitioning with tunnels
- Multicast
- Security
- QoS
- Management and monitoring

6DISS Toolkit – Tiger Team

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

6DISS Toolkit – Website

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 6DISS 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.

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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)

World Tour Programme

- 🟢 Done
- 🟡 Planned
- 🔴 „Extra" events

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Conclusions

6DISS aims to:

- Assist those regions with less IPv6 experience 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 EU ICT Programme. The first proposal for an extension of 6DISS – including AfriNIC – was not successful, but we will resubmit it next year

- Make European research and industrial concerns aware of the highly skilled personnel who can contribute to the urgently needed improvement of ICT infrastructures

Conclusions

The 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

Thank you for your attention