



6DISS services

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Agenda

- 6DISS services overview
- Services review





6DISS services overview



Services overview /1

- Slide set : Modules
- E-learning
- Remote labs platforms
- Tiger team
- Documentation
 - Website : www.6diss.org
 - Deliverables
 - Books : *IPv6 deployment guide*
 - CDs (from 6DISS workshops)
 - Feedback questionnaires



Services overview / 2

- Material prepared for every WS
 - Non official modules
 - Practical exercises on dedicated topics
 - Memo to organize a WS
- Material to come (again)
 - Applications DB
 - Network Management DB

<http://tools.6net.org>



6DISS sessions

- 6DISS can provide 3 session types
 - IPv6 workshops with hands-on exercises for beginners with IPv6
 - IPv6 technical sessions for IPv6 experienced netadmins
 - IPv6 trainers training to help preparing IPv6 workshops





6DISS IPv6 Modules



Module Topic	Partner responsible	Module Topic	Partner responsible
6DISS presentation Workshop introduction	Martel Renater	IPv6 Autoconfiguration	FCCN
IPv6 Introduction	Renater	IPv6 DNS	FCCN
IPv6 Protocol	Renater	IPv6 Routing protocols	FCCN
IPv6 Addressing	Renater	IPv6 Security	UCL
IPv6 Addressing case studies	Hungarnet/ Renater	IPv6 Mobility	Cisco
IPv6 Associated protocols	Renater	IPv6 multicast	Renater
IPv6 Applications	UCL	IPv6 networks Management	Renater
IPv6 - IPv4 Coexistence	SOTON	M6Bone	Renater
Equipements configuration	Hungarnet	RPSLng	FCCN
IPv6 QoS	GRNET	Before deploying IPv6	Renater
		Deployment scenarios	Hungarnet



Module Topic	Module #	Module Topic	Module #
6DISS presentation Workshop introduction	001	IPv6 Autoconfiguration	080
IPv6 Introduction	010	IPv6 DNS	090
IPv6 Protocol	020	IPv6 Routing protocols	100
IPv6 Addressing	030	IPv6 Security	110
IPv6 Addressing case studies	031+ 032	IPv6 Mobility	120
IPv6 Associated protocols	040	IPv6 multicast	070
IPv6 Applications	140	IPv6 networks Management	060
IPv6 - IPv4 Coexistence	130	M6Bone	071
Equipements configuration	150	RPSLng	101
IPv6 QoS	160	Before deploying IPv6	131
		Deployment scenarios	132



A typical module organization

- 6DISS frame
- Copy..rights
- PPTs & PDFs
- The comment zone usage



Updating the modules

- For your WS preparation
 - Create your own version of the modules (some)
 - Burn a CD with all the material you presented for the attendees
- If you modified/updated a module
 - Send the modified version to the module owner
- If you created a new module
 - Send it to 6diss@6diss.org





6DISS modules review



Module Topic	Module #	Module Topic	Module #
6DISS presentation Workshop introduction	001	IPv6 Autoconfiguration	080
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		Deployment scenarios	132



IPv6 modules content /1

- IPv6 introduction
 - Why a new IP version ?
 - Emergency measures : NAT + CIDR
- IPv6 protocol
 - Header + options
- IPv6 addressing
 - Address formats
 - Address types
 - Address fields meaning
- Address case studies
 - Renater
 - Hungarnet



IPv6 modules content / 2

- IPv6 associated protocols
 - Neighbor Discovery (NDP)
 - Path MTU discovery (pMTU)
- IPv6 networks management
 - IPv6 MIBs and SNMP status & implementations
 - Netflow v9 & vendors implementation
 - Commercial management platforms
 - Freeware management tools
- IPv6 Multicast
 - Multicast address formats
 - Multicast Listener Discovery protocol (MLD)
 - PIM & embedded RP
 - **M6bone module** : world wide IPv6 multicast backbone



IPv6 modules content / 3

- Autoconfiguration
 - Stateless
 - Stateful
- IPv6 DNS
 - What's different from IPv4
 - New Resource Records for IPv6
 - Reverse zones & zone delegation
- IPv6 Routing
 - Routing protocols for IPv6 (RIPng, OSPF, BGP4+)
 - ***RPSLng module*** : does this module exist ????



IPv6 modules content / 4

- IPv6 security
 - IPSEC
 - Access Control Lists (ACLs)
- IPv6 mobility
 - MIPv6
- IPv6- IPv4 coexistence (transition mechanisms)
 - Dual Stack
 - 6to4, 6over4
 - Teredo, ISATAP ...
 - ***Before Deploying module***
 - ***Deployment scenarios module***



IPv6 modules content / 5

- IPv6 applications
 - Does this module exist ??????
- IPv6 equipments configuration
 - Title is self explanatory ...
 - Hosts (Unix based, Windows, MacOS)
 - Routers (Cisco, Juniper, Alcatel)
- IPv6 QoS
 - Does this module exist ????????





6DISS E-learning application



6DISS e-learning

- <http://www.6diss.org/elearning>
- Good introduction before the WS
- Allows to skip general considerations and the basics on IPv6
- Mandatory for all the tutors
- If you haven't run it yet ...
 - do it during this session breaks





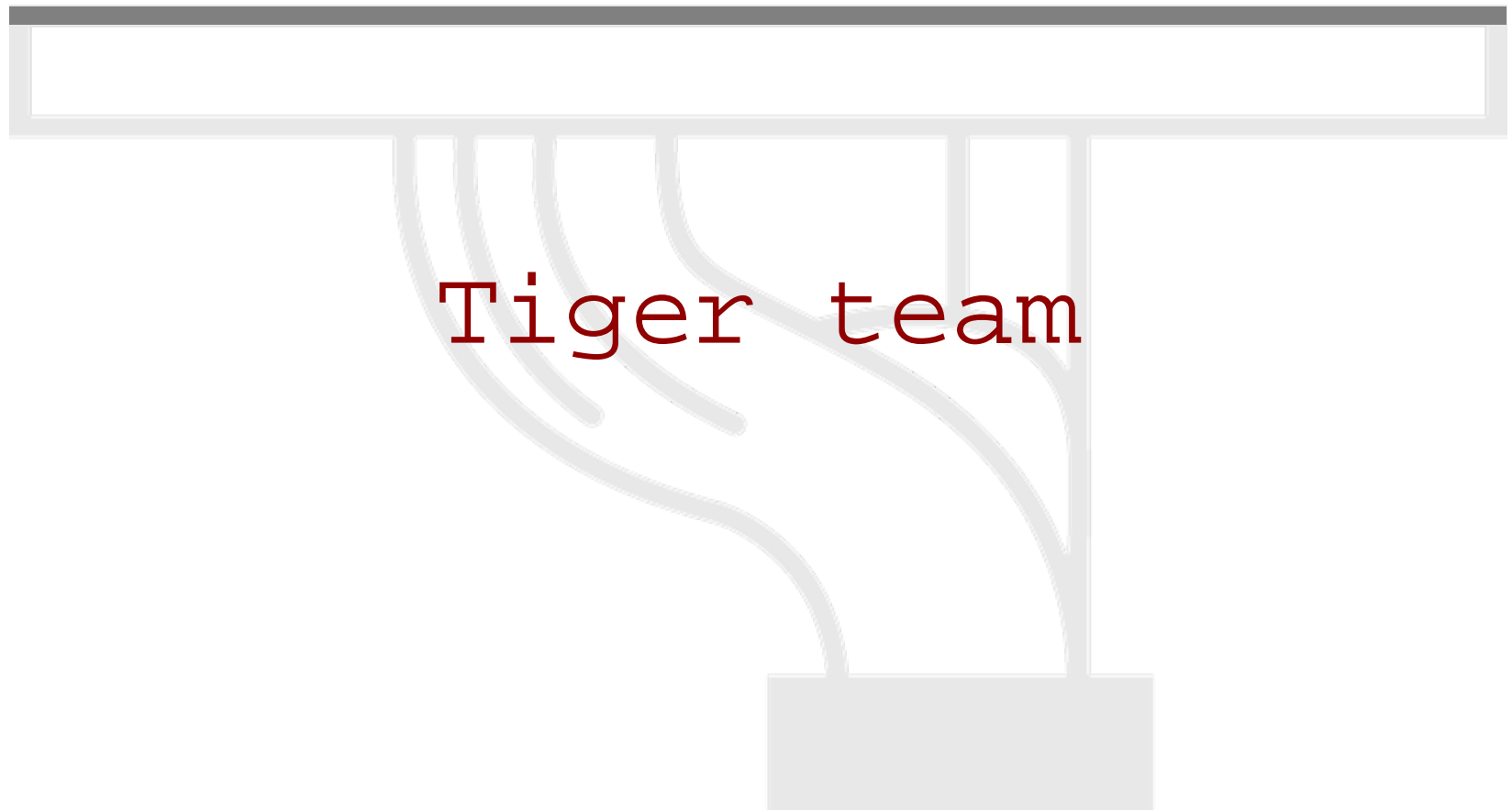
6DISS Remote labs platforms



Remote labs

- Goal
 - to allow routers access to check/test IPv6 configurations
 - ie. to check a practical exercise you prepared for trainees
- Who ?
 - Everyone ...
 - Priority is for 6Diss partners and WS teams preparation
- How ?
 - Jérôme & Gunter will explain later on





Tiger team

- What's it ?
 - Group of people ready to answer tech questions
 - and provide help to run your WS
 - and to deploy IPv6 in your network
- Who to talk to ?
 - Mail to : helpdesk@6diss.org
- Website to use :
 - www ...
- Join the team ?
 - Mail to Tim Chown tjc@ecs.soton.ac.uk





IPv6 Documentation



Documentation

- Websites :
 - <http://www.6diss.org> !
 - <http://www.6net.org>
- Deliverables
 - to review a dedicated topic (mobility, ipv6 services, ...)
- Books
 - IPv6 deployment guide (6Net)
 - ... (Cisco Press)
- CDs (from past WSs)
- Feedback questionnaires
 - From 6DISS workshops
- *Practical exercises for hands-on sessions*

