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** Security Class: PU- Public, PP – Restricted to other programme participants (including the Commission), RE – Restricted to a group defined by the consortium (including the Commission), CO – Confidential, only for members of the consortium (including the Commission)

Abstract:

This document provides a summary of the 2nd 6NET Training Workshop held on 3-4 March 2003 in Diegem, Belgium.

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Overview

The 2nd 6NET Training Workshop was held on 3-4 March 2003 in Diegem, Belgium. The objectives were to ensure that project partners were aware of the new IPv6 features, to train them in the use of IPv6 routing protocols, and to familiarise them with the configuration of Cisco equipment.

The first day of the workshop provided an overview of the current status of the 6NET project, followed by an overview of IPv6 technology. This outlined the reasons why IPv6 is required, the differences between IPv4 and IPv6, and the advantages of using IPv6. This was followed by discussions on deployment, addressing, security, quality-of-service, mobility, autoconfiguration and transition issues.

The next morning focused on IPv6 versions of routing protocols. This included sessions on BGP scalability, OSPFv3 which was planned to be run on 6NET, and integrated IS-IS which was already running on 6NET. There was also a session that covered tuning strategies for these routing protocols, and provided an insight towards future enhancements to fast-convergence strategies.

In the afternoon, there was a session on setting-up and configuring the Cisco 12000 Series Gigabit routers that are used in the 6NET backbone. The final session then provided an overview of Cisco Express Forwarding (CEF) that is a key component of its NetFlow and Tag Switching technologies.

Twenty participants attended the workshop from eleven partner organisations; mostly those involved with setting-up and operating the 6NET network. The programme was organised as follows:

3 March 2003 (11.00-17.00)

- 6NET Technical State-of-the-Union – *Theo de Jongh, Cisco*
- Basic IPv6 – *Luc De Ghein, Cisco*

4 March 2003 (09.00-17.00)

- BGP Scalability – *Luc De Ghein, Cisco*
- OSPFv3 – *Luc De Ghein, Cisco*
- The Integrated IS-IS for IPv6 – *Dimitriy Esakov, Cisco*
- Tight SLA Tuning on 6NET Backbone Network – *Gunter Van de Velde, Cisco*
- 12K Support Training – *Peter Kums, Cisco*
- CEF and CEFv6 – *Serge Krier, Cisco*

The full proceedings of the workshop can be found on the 6NET website at:

<http://www.6net.org/events/training-2003/>

Participants

<i>Name</i>	<i>Organisation</i>
Arnaud Bruicy	6NET NOC
Vilmos Bilicki	HUNGARNET
Peter de Boer	SARA (SURFnet NOC)
Istvan Farkas	HUNGARNET
Marco Gallo	INFN-GARR
Moraitis Gerasimos	CTI
Ramon de Jong	SARA (SURFnet NOC)
Alex de Joode	TERENA
Ulrich Kiermayr	ACOnet
Andras Kovacs	HUNGARNET
Athanassios Liakopoulous	GRNET
Marc Maisons	6NET NOC
Jan Marek	CESNET
Bruno Melideo	INFN-GARR
Spyros Papageorgiou	GRNET
Aurelia Peltier	6NET NOC
Wiktor Procyk	PSNC
Ana Romero	DANTE
Tomasz Szewczyk	PSNC
Dick Visser	TERENA