



SILK EDUCATIONAL PROGRAMME (EXCO-18)

TO: THE INTERNET SOCIETY
FROM: R.F. JANZ AND ZITA WENZEL
SUBJECT: ADDITIONAL GRANT DETAILS FOR THE SILKNOG APPROVED PROJECT
DATE: DECEMBER 16, 2003
CC: LYNN ST. AMOUR, CEO AND PRESIDENT; PETER GODWIN, PROGRAM MANAGER

INTRODUCTION

At the end of August 2003, the last of the Silk satellite dishes became operational. Although there are still some technical problems to be solved, the next stage of the project can now be initiated: the education and training of the staff of the Silk NOCs. In October, a first, very successful, training workshop was held in Tashkent, Uzbekistan. This workshop dealt with the operational aspects of the equipment that has been installed at the NOCs as part of the Silk project. Besides this workshop, education and training are necessary in various networking areas. Sometimes not the same type of training is needed or appropriate in all the countries (due to initial differences in the level of technical expertise in the various Silk countries).

This document gives additional request information of the immediate training needs that are to be addressed for the approved SilkNOG project within the next six months.

For more information on the Silk project we refer to the Silk website: www.silkproject.org

TRAINING WORKSHOPS

The success of the Tashkent workshop justifies the intent to repeat the formula for various other fields where education is necessary.

The formula of the workshop is:

- Training sessions are in the Russian language
- Training sites are in the Silk countries
- Two to three technicians per country are invited
- Training duration is one week

The programme of the Tashkent workshop is attached as an example. The estimated cost of this workshop was \$19,950. Repetition of the workshop asks for a slightly higher budget to accommodate extra travel expenses for Western trainers (the Tashkent workshop was very inexpensive and underestimated in this aspect) and financial support for the organising NREN. The budget per workshop should be \$ 25.000.

A survey among Silk NRENs has been conducted recently with regard to the NREN's immediate needs. This resulted in the following areas: IPv6, Security, Wireless Technology, and Distance Education. These trainings workshops should and are planned to be conducted before July 2004.

Approximate cost per workshops is USD\$ 25,000; times 4 workshops is USD\$ 100,000.

MENTOR ("TRAIN THE TRAINER") MISSIONS

As mentioned above, the NOC staff in some countries are more educated, trained, and experienced than in other countries. These differences should be decreased. One way of doing this is to have technicians from the more experienced countries visit the less experienced countries and coach the staff at these NOCs. The countries that need such coaching are Turkmenistan, Tajikistan, and Kazakhstan. Countries who might be willing to provide coaches are Kyrgyzstan, Uzbekistan and Georgia. These countries would need financial compensation for fill-in staff during the time that they lend their technician(s) to the other NREN's NOC.

The cost components of a single mentor mission of one week are:

- Travel: USD\$ 500
- Lodging (6 * \$ 50): USD\$ 300
- Salary 2 weeks (1 week mission, 1 week preparation and after support afterwards): USD\$ 400

For a start, two mentors per country are envisaged before the summer of 2004.

The approximate costs for mentor missions: 3 countries, twice per country, at USD\$ 1,200 each: USD\$ 7,200 total.

TURKMENISTAN

Special attention should be given to Turkmenistan. The educational situation in this country is so poor that there is absolutely no way to provide adequate education and training from within the country itself. There even the most basic training is necessary to even start with an NREN NOC that has some chance of success. This could be done by reserving budget for five trainings certificates especially for individual NREN staff members from Turkmenistan. The estimated budget per trainings certificate is be \$ 3,000.

SUMMARY

The educational programme consists of three elements:

1. Four technical training workshops: USD\$ 100,000
2. Three mentorship's (2*1 week) for Turkmenistan, Tajikistan, Kazakhstan: USD\$ 7,200
3. Five trainings certificates for Turkmenistan: USD\$ 15,000

The total required budget is: \$122,200

Appendix: Outline of Tashkent workshop.

1. Key Speakers (Names, affiliations and indication of degree of speakers' commitments)

(Names, affiliations and indication of the degree of their commitments - i.e. firm +++, tentative ++, not yet contacted +)

Surname	Initials	Title	Institute
			Cisco
Lavrov	V.		DESY
Nabiev	S	Dr.	Tarena
Velijchuk	Y		Aknet
Yudin	G		UzSciNet
Kartvelishvili	M		GRENA
Berezhnev	S	Dr	DESY

3. Justification for the proposed Advanced Networking Workshop

The primary goal of the workshop is to address common challenges regarding the management of the Silk NOC equipment. The second objective of this workshop is to discuss the problems of coordination of the management of available resources within the Silk Project. The third goal is to have face to face meetings of the technical staff involved in the management of the remote Silk NOCs, after which a virtual working group will easier be created.

4. PROGRAMME, TIMETABLE AND ORGANIZATION

1st day – 12 October a.m.

Arrivals, Registration

2nd day – 13 October

Opening ceremony – Khadjaev Alisher, The representative of Uzbekistan in SilkBord

Introduction to the workshop programme - Vadim Navotny, UZSCINET.

Technical issue of "Silk Highway" project - Sergey Berezhnev, DESY

Introduction in routing – CISCO

Routing in SilkHigway – Vladimir Lavrov, DESY

Discussion

3rd day – 14 October

Quality of Service – Yuri Velijchuk, AKNET

Wireless communication – Sirojiddin Nabiev, TARENA

AVAYA technology

Monitoring of network – Michael Kartvelishvili, GRENA

Discussion

4th day – 15 October

Design of Metropolitan Area networks and Campus Area networks – Greg Yudin, UZSCINET

Reporting of Silk Highway project country – The country representatives

Face to face discussion

Discussion of reports

Making out of recommendations on upgrading of technical service and perspectives of developing of satellite ground stations in the "Silk Highway" Project.

5th day – 16 October

Visit in Point of Presence of UZSCINET in Samarkand.

6th day – 17 October

Departures.