Internet-2 in Israel Update

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Internet Society of Israel
Purpose

• To provide Israeli researchers with Quality of Service (Qos) and Class of Service (CoS) via the Internet, in order to conduct their R&D activities with colleagues in Europe and the USA

• Not intended to speed up standard Internet access
The Abilene Network

completed connections:
175 participants
42 connectors + 2 NGIXs
30 connections to 18 peer networks

Key:
- DLS: Point of Presence
- DLS: Node
- DLS: Subnet
- DLS: Super-Node

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Abilene Network Operations Center
Indiana University
www.abilene.ui.edu
International connectivity

• Israsat/Gilat won initial tender for link to USA
  – T3 satellite from July 1999 - November 2000
  – switched to T3 fiber link via Golden Lines in November 2000

• E3 link to Europe via Golden Lines started in May 1999
  – upgraded to T3 fiber in April 2001
Solution

10Mb/sec ATM

Chicago

Quantum

London

E3 - MED1 - FLAG
soon to be T3

Israel BIU

T3

Israel TAU
How much of the Internet?

- 2700 from Europe
- 2500 from USA
- \( \frac{5200}{97000} = 5.3\% \) of the Internet is accessible via Internet-2
Industry and international access

• Not meant to replace Internet-1 (commodity) access
  – R&D units still required to maintain their Internet-1 access lines
• Will provide up to 45Mb/sec throughput for high-speed R&D projects
Internet-2 design
Yearly USA traffic

34Mbs מהור
Yearly European traffic

22Mbs מהנק
Financing of Internet-2

The chart illustrates the financing of Internet-2 from 1999 to 2002. The funding sources include:

- University sources
- Government sources
- Private sources
- States

The chart shows a significant increase in financing from 1999 to 2002, with the majority of funding coming from private sources.
Internet-2 external customers

- בזק
- MOST
- שירות המשורolem
- Bandwiz Ltd
- מטח הביוולוגי
- (soon)
- מכון הביוולוגי
- Israel-1
- בניה"ח רמב"ם
- בניה"ח סורוקה
Management structure

• Government decision from June 9, 1998 to set up Internet-2

• Committee

  – co-chairs of the Ministry of Science and Technology and the Ministry of Communications

  – members include: the director of the electronics industry, the director of the Ministry of Science and Technology, the deputy director of the budget department, the head of the computer center, and the head of the ministry commissioner.
Management - continued

• מנהלת
  - מנכ”ל יח”א, נציג התעשיות, נציג המשלחת
  - Many observers from: Ministry of Science, Ministry of Communications
  - handles all tenders and all day to day policy

• יח”א
  - is mandated to handle all operational issues of setting up and running the network
Policy

• Policy as to who/what qualifies as R&D industry
  – will be based on a per project basis
  – requests to connect have to be sent to the מנהלה
  – the מנהלה will set price levels
  – initially free till July 2001
More?

• http://www.internet-2.org.il
  – FAQ, news, maps, Authorized Use Policy, etc.