

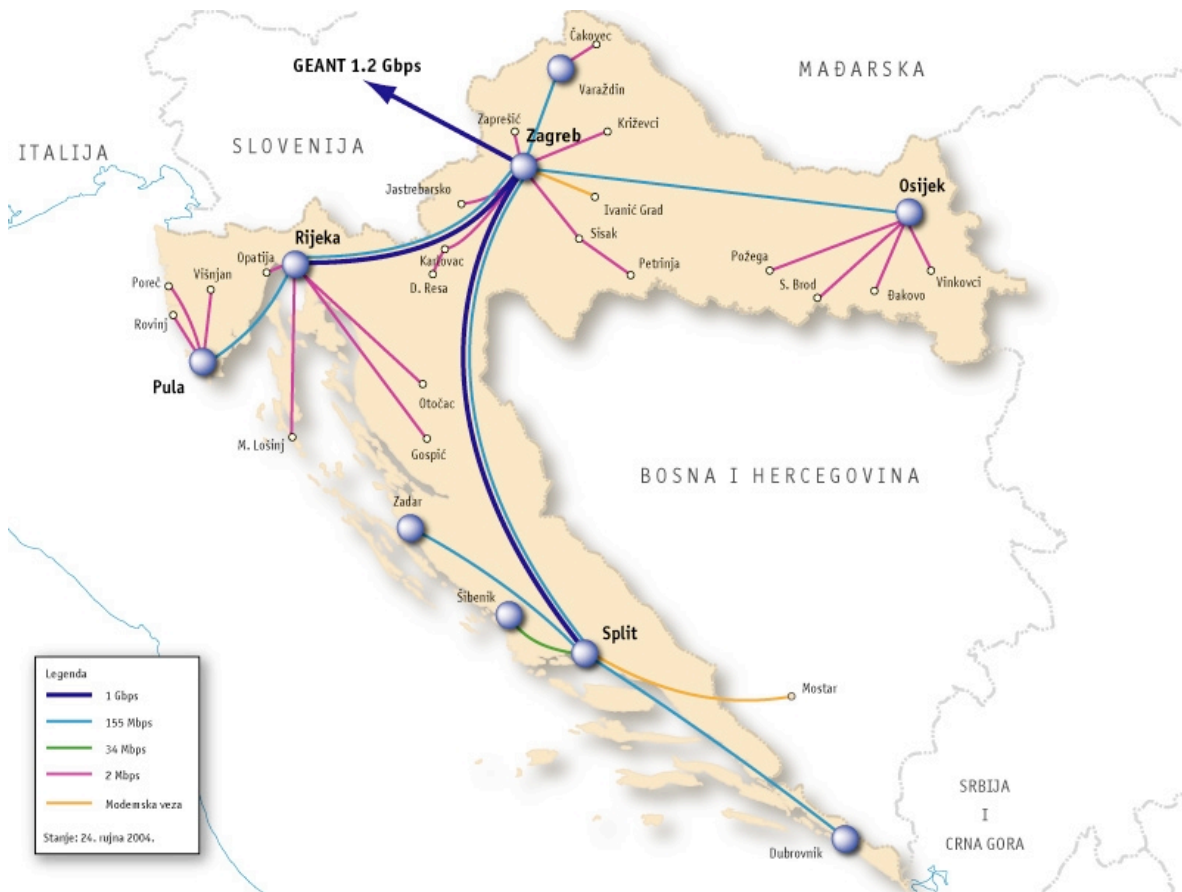
## THE CURRENT STATE OF CARNET

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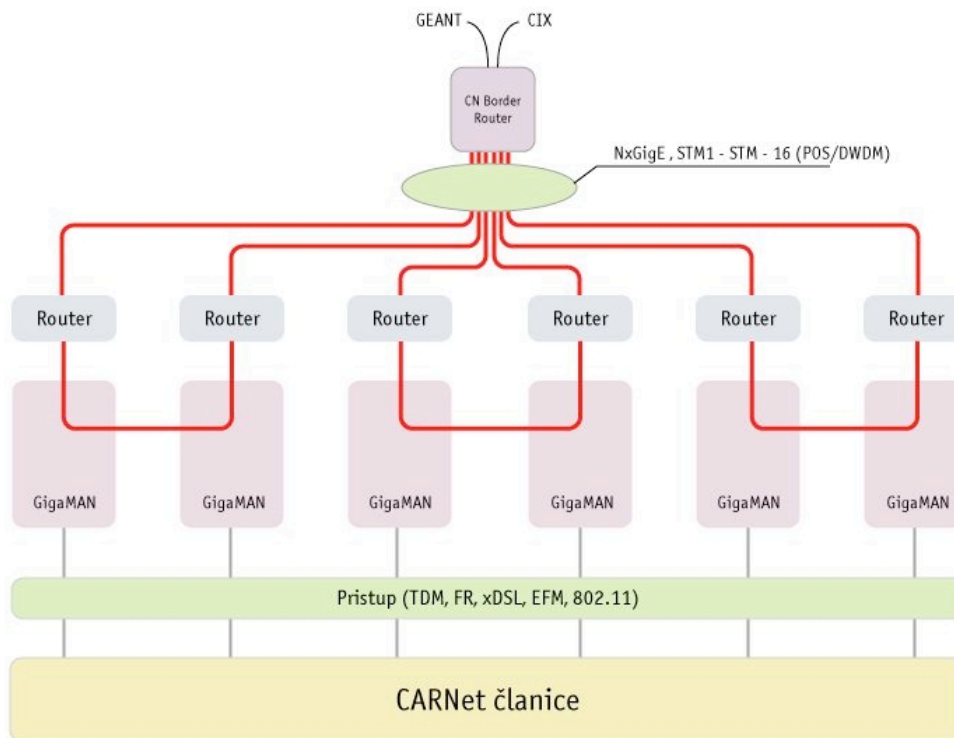
> 1) Please describe CARNet's topology and include a topology map if  
> possible.

At this moment, CARNet network connects 325 locations in 35 Croatian cities. Please find the topology map below



> 2) Please describe the technical set-up of your network and the  
> applications currently supported.

CARNet network uses different technologies for backbone and access network. Backbone links spread from 2 Mbps (leased lines) to 10 Gbps (Gigabit ethernet). Institutions are connected to CARNet PoPs with different speeds also, starting from 2 Mbps to 1 Gbps. Please find below the diagram which describes technology implemented in CARNet network.



CARNet network provides:

- IP connectivity to CARNet network
- connection to commercial Internet, GEANT network, and other ISP's in Croatia through the Croatian Internet exchange point - CIX
- 5700 dial-in entries for individual users (V.92, ISDN)
- wide range of different network services for institutions (DNS, DHCP, NAT, layer 2 and layer 3 VPN, multicast, streaming and videoconferencing, ...)
- IPv6 test bed, which consists of 5 nodes in 3 cities
- more services in testing phase, like VoIP

> 3) How many institutions are currently connected to CARNet? How many > users does it have approximately?

There are 207 institutions connected to CARNet network at this moment, most of them universities, faculties, institutes and other research and educational institutions. Roughly, it's around 120.000 students, professors and other stuff, which are all CARNet users.

There is also a project which deals with connecting schools to the CARNet network, using aDSL technology in a VPN cloud which is then connected to a CARNet network with one dedicated leased line. At this moment around 170 schools are connected using that technical solution, we expect to have around 450 schools connected until the end of this year.

> 4)Please describe CARNet's connections to other research and academic  
> networks.

CARNet is connected to a GEANT network, which is pan-european academic network. CARNet is connected to a GEANT PoP in Zagreb, using connection of 1,2 Gbps.

With respect,  
Igor Velimirovic

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