

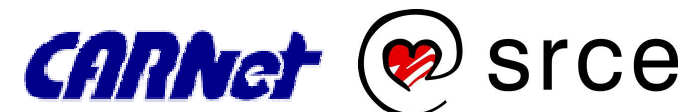
Connect. Communicate. Collaborate

# Geant2 - JRA3

Garantirana end-to-end usluga sa rezervacijom mrežnog kapaciteta

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21.11.2007, CUC2007, Rijeka



# Garantirana end-to-end usluga sa rezervacijom mrežnog kapaciteta



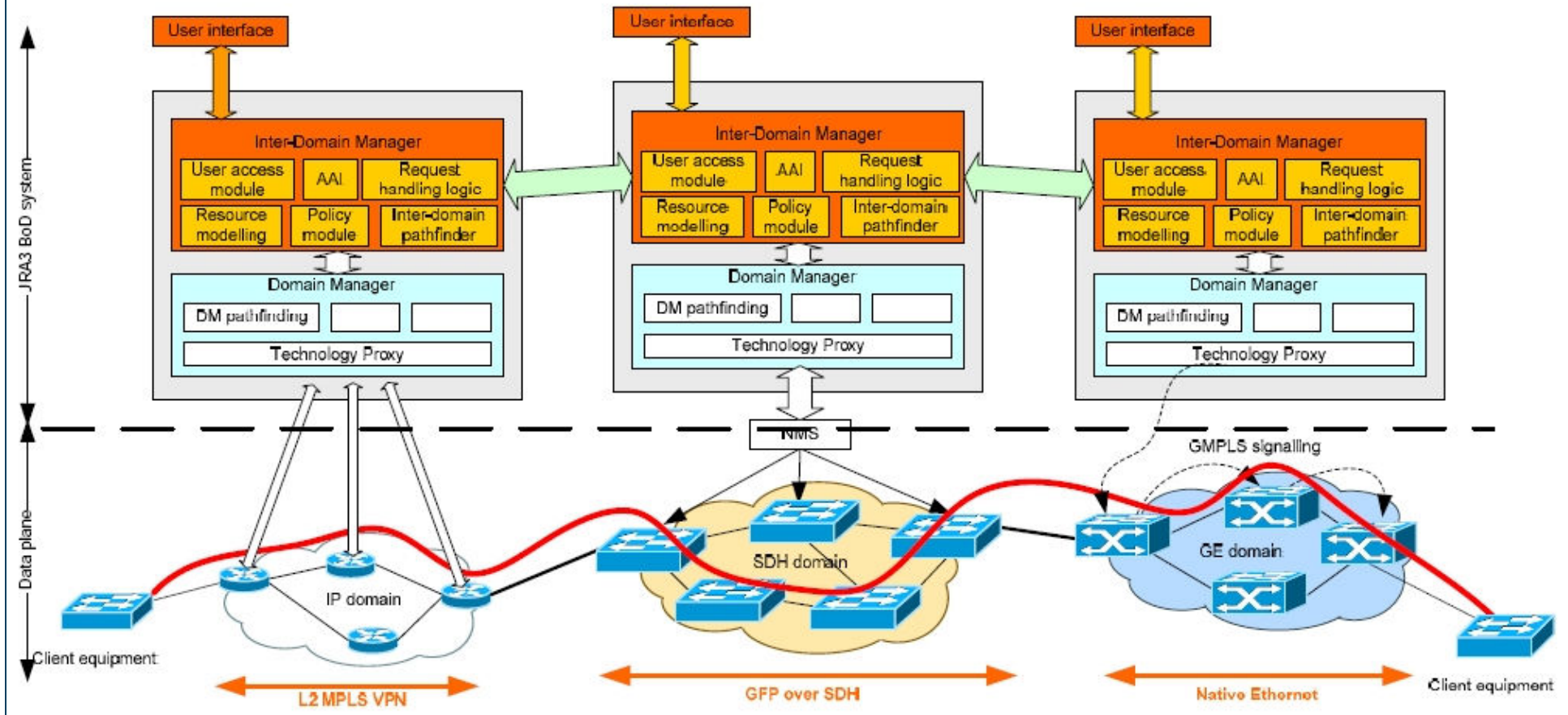
Connect. Communicate. Collaborate

- Što i zašto **BoD** (Bandwidth on Demand)
  - Kakvoća usluge i kontrola zagušenja;
  - Kontrola mrežnog puta;
  - Za aplikacije koje zahtijevaju malo kašnjenje i velike mrežne brzine (80 Mbit/s do 10 Gbit/s);
  - Kroz različite mrežne tehnologije/sučelja (L2 MPLS VPN, Native Ethernet, SONET/SDH).
- **AutoBAHN** (Automated Bandwidth Allocation across Heterogeneous Networks)

# Konzept (1):



Connect. Communicate. Collaborate



## Koncept (2):



Connect. Communicate. Collaborate

- **Sustav za postavljenja mrežnog puta:**
  - Inter-Domain manager (IDM)
  - Domain manager (DM)
  - standardizirana mrežna sučelja (*interface*)
- **Sustav mrežnog nadzora kvalitete usluge**
- **Sučelja prema drugim BoD sustavima**
- **Cilj JRA3 radne grupe je uspostaviti dinamički mrežni servis u kojem korisnik ispunjava zahtjev za garantiranom mrežnom uslugom, prilikom čega mreža sama dinamički postavlja potrebne parametre.**

# CARNet & Srce work



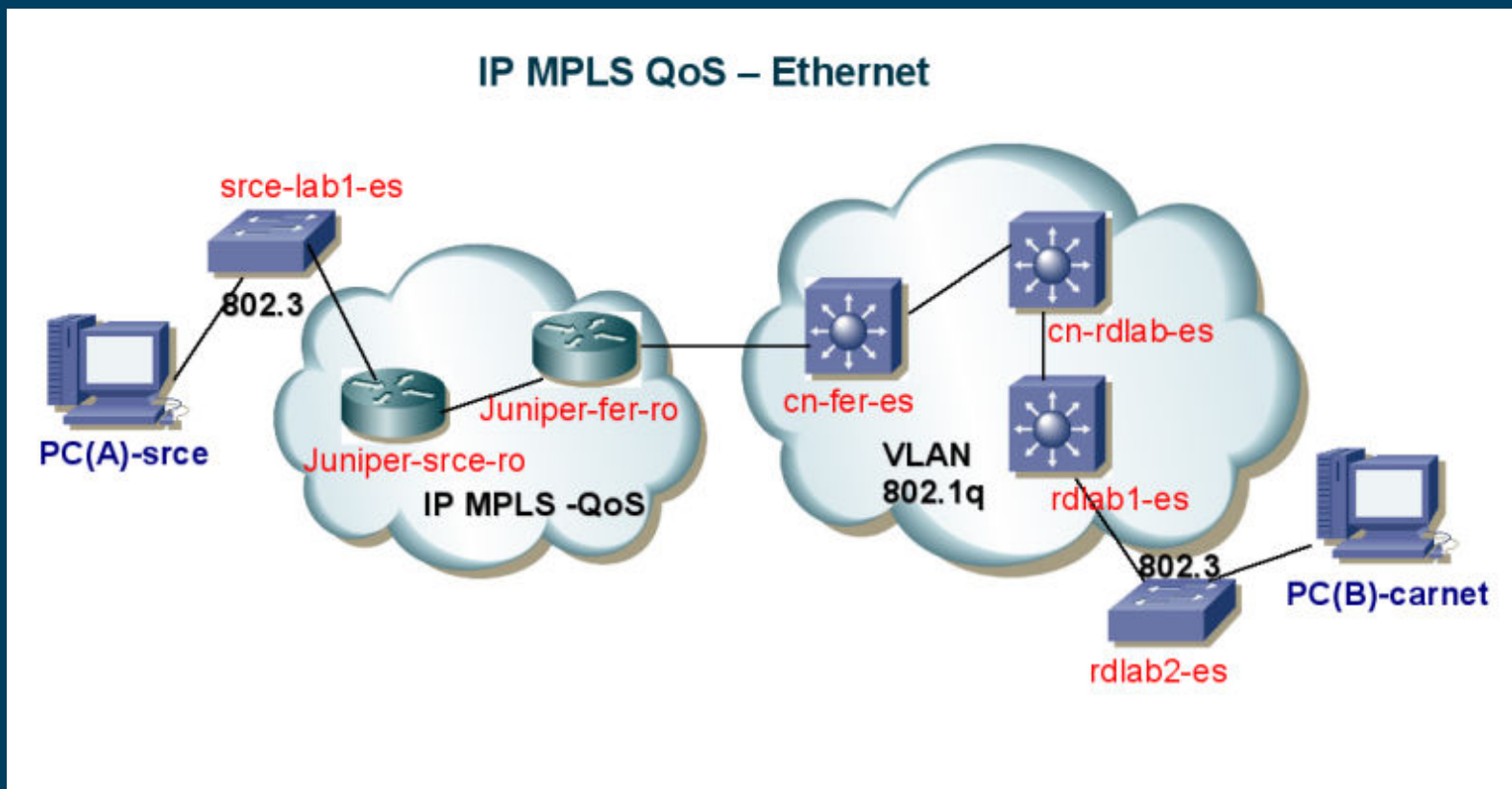
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- **Work item 2:** sastavljanje upitnika, definiranje korisničkih grupa, pregled mogućih tehnologija za BoD uslugu
- **Work item 3:** "Policy modul", rad na definiranju IDM modula
- **Work item 5:** istraživanje mogućnost mrežnog povezivanja dvije različite mrežne domene: IP-MPLS (sa QoS postavkama) i Ethernet domene

# JRA3 testna mreža kroz CARNet jezgru



Connect. Communicate. Collaborate





# AutoBAHN demo (1)



Connect. Communicate. Collaborate

Cambridge, 2007

Map - Neostrada TP

http://150.254.160.188/autobahndemo/MapIdm.aspx

Live Search

Map

autoBAHN.demo

Manage Map Request Cancel Reservation Map Add Admin Download

Map: Hybrid Road Aerial

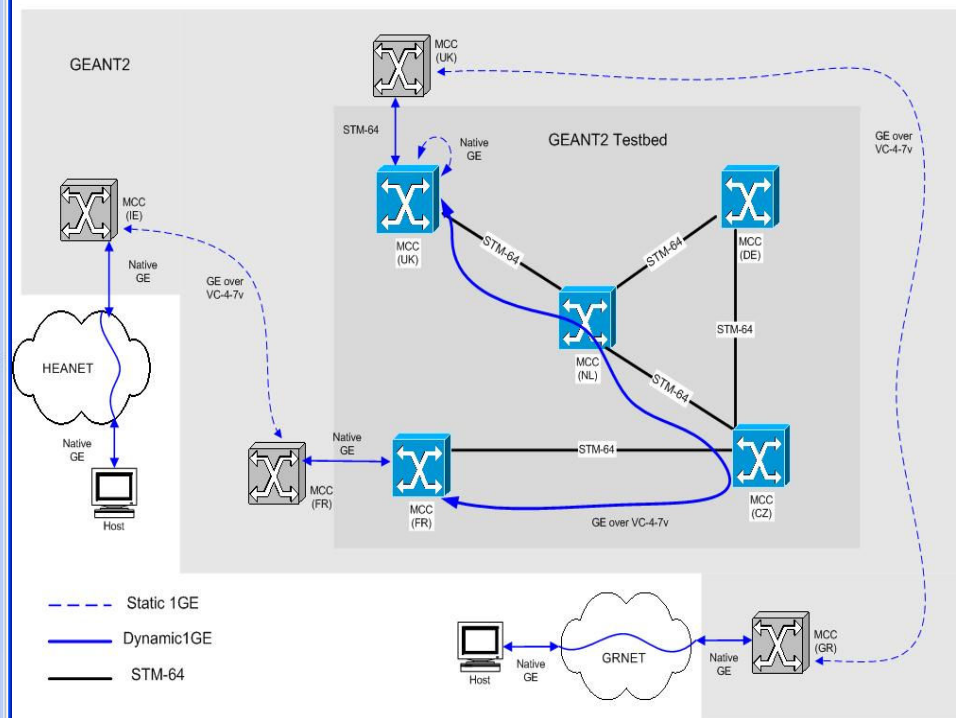
Status: monitored every 30 secs

Microsoft Virtual Earth™

© 2006 Microsoft Corporation © 2006 INATEC

Internet 100%

AutoBAHN demonstration circuit

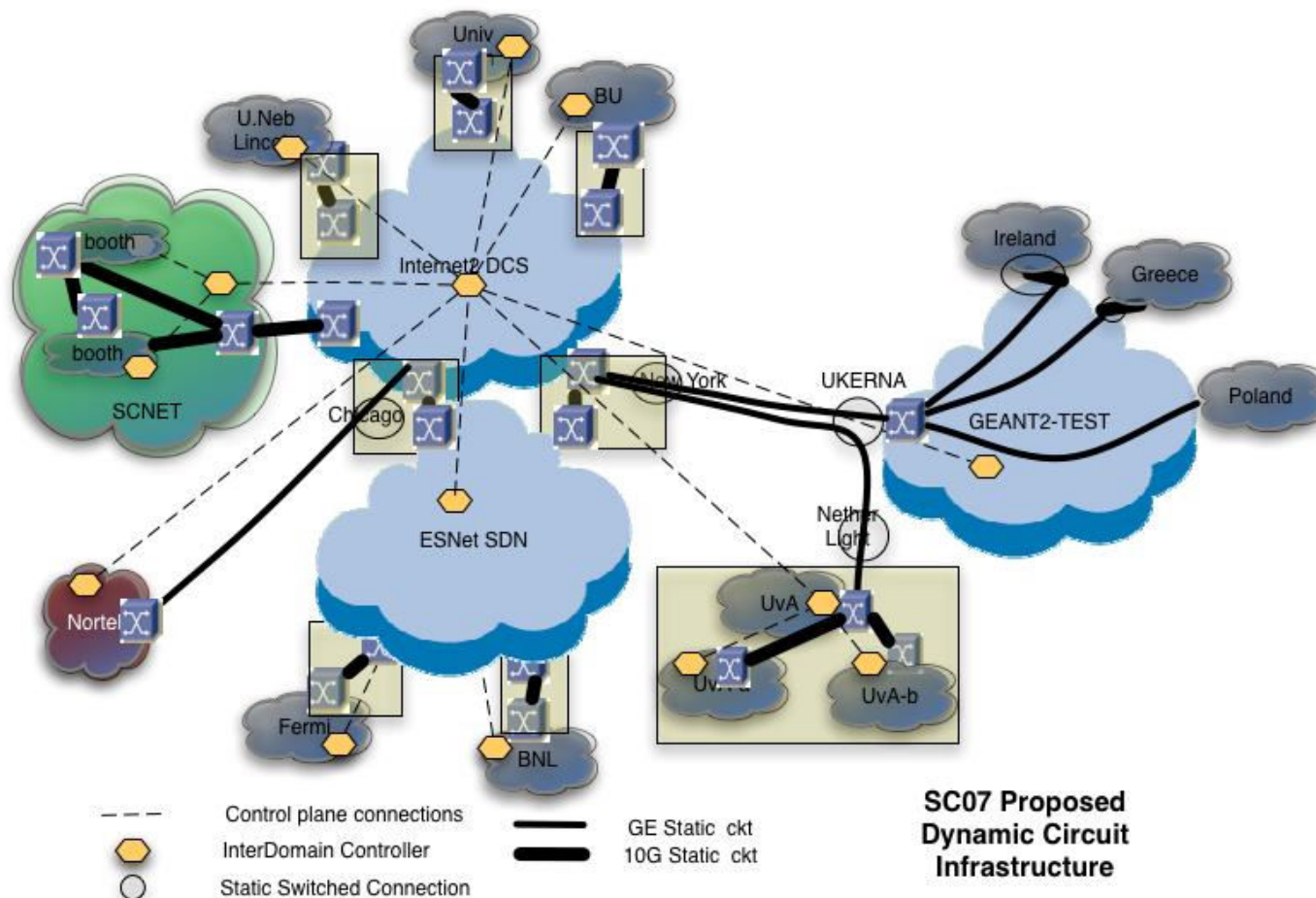


# AutoBAHN demo (2)



Connect. Communicate. Collaborate

- 7 Gbyte/s
- tj. 1 DVD
- 3 velike mreže
- I2,GN2,ESNet





# Pitanja



Connect. Communicate. Collaborate

- sad... ili na:
- [gn2\\_jra3@carnet.hr](mailto:gn2_jra3@carnet.hr)
  
- Cheers