Croatian Internet eXchange CIX

Menog 7

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Starting an IXP



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Agenda

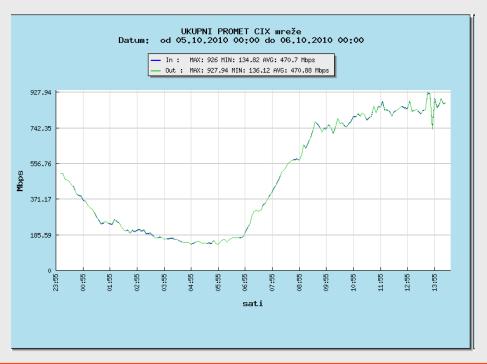
- CIX fundamentals
- CIX in numbers
- Establishment of CIX
- CIX developments (members, peak traffic, peerings)
- Problems and difficulties in CIX establisments?
- Solutions
- Questions

CIX fundamentals

- Croatian Internet eXchange (www.cix.hr)
- Croatian national centre for exchange Internet traffic
- Hosted and operated by University Computing Centre (Srce)
- Neutral and not-for-profit
- Available to all ISPs in Republic of Croatia, equally for commercial and non-commercial or private networks
- The purpose of CIX is a direct interconnecting of ISPs in order to reduce unnecessary traffic via third networks

CIX in numbers

- September 2010
- 20 members
- 200 TB of delivered traffic
- 4 1 Gbps peek traffic



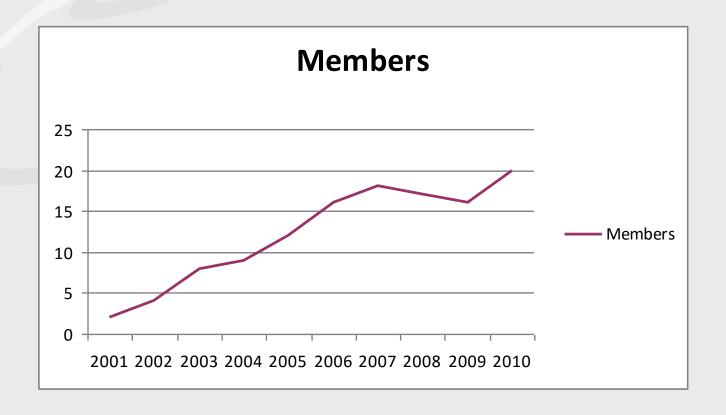


Establishment of CIX

- Established 8 of september 2000. => 10 years of CIX
- In an academic environment
- Started under the CARNet (Croatian NREN) umbrella
- First operational peering in 2001.
- Changes in governance and organisational structure in 2005.
 - CIX Council
 - CIX Policy
 - Financed by memebers

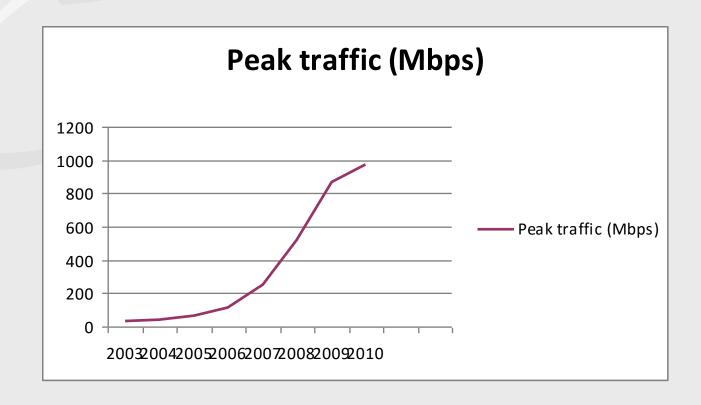


CIX development (members)

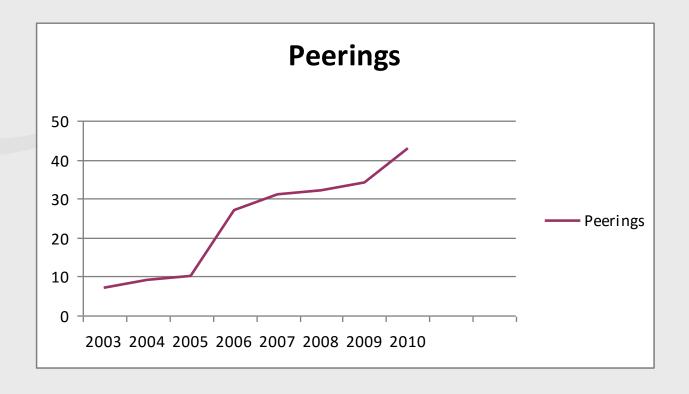




CIX development (peak traffic)



CIX development (peerings)







Problems and difficulties in CIX establisments?

- Croatia is a small market (4.500.000 residents), width one ISP holding >80% of market (former Croatian Telecom, not a member of CIX)
- Tehnical education of CIX members (and future CIX members)
- Struggling to establish more peering
- Transformation from "free of charge" to "not-for-profit" for CIX members
- Lack of interest by international players (Tier 1 providers, content providers) to become CIX members

Solutions

- More effort in education and the establishment of cooperation between existing CIX members (more peerings)
- Constant search of potential new members within the Croatia
- Trying to bring more international players :
 - VeriSign February 2010
 - Cogent Communications May 2010 (just PoP not member)
 - ??



Thank You!

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