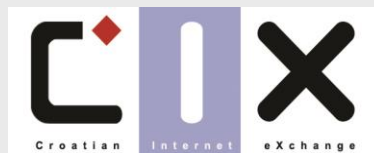# Croatian Internet eXchange CIX

RIPE Regional Meeting

Dubrovnik, 06. – 09. Sep 2011

Starting an IXP

Mario Klobučar, Assistent Director
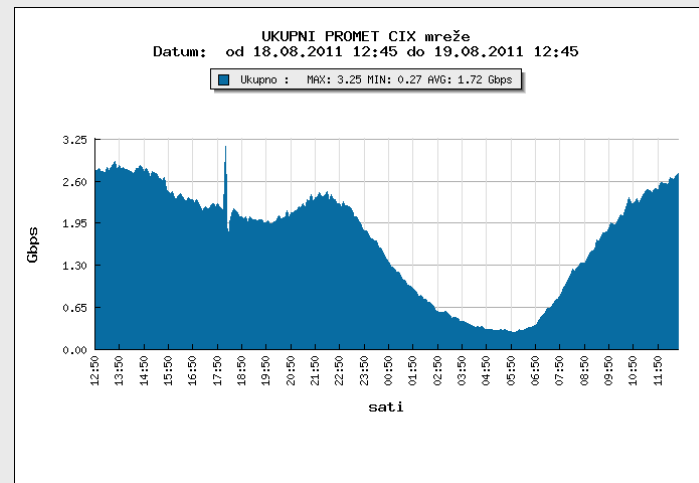University Computing Centre - SRCE

Agenda

- ❖ CIX fundamentals
- ❖ CIX in numbers
- ❖ Establishment of CIX
- ❖ 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

❖ July 2011

❖ 23 members (3 new member in 2011)

❖ 570 TB of delivered traffic (140 TB in July 2010)

❖ 4,39 Gbps peek traffic (940GBps peek in July 2010)

Establishment of CIX

❖ Established 8 of september 2000.

❖ 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

srce

CIX

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

CIX

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)
- Google May 2011

Thank You!

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