

SRCE University of Zagreb University Computing Centre

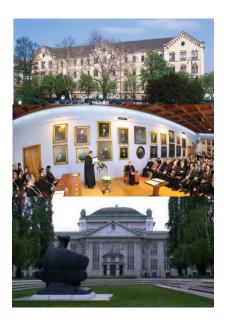
CIX CROATIAN INTERNET EXCHANGE

PEERING DAYS 2019



University of Zagreb – beginning 350. academic year





- officially founded at 23 September 1669 by King Leopold I Habsburg who issued a decree granting the status and privileges of a university to the Jesuit Academy of the Royal Free City of Zagreb
- Today:
 - a strongly research-oriented institution, contributing with over 50 percent to the total research output of the country
 - 34 faculties and academies in 3 cities
 - 3 campuses
 - 70.000+ students
 - 12.500+ student graduations per year
 - 300-500 PhD promotions per year



Some facts from the history of SRCE...

- 1972 First training courses for end-users at temporary UNIVAC 1106 System
- 1974 UNIVAC 1100 the biggest & fastest computer "in this part of Europe" and new building for SRCE
- 1981 SIZIF System of Scientific Information of Croatia
- 1984 Information System for Sarajevo'84 Olympic Games
- 1987 First supercomputer in Srce (CONVEX)
- 1989 First UNIX based production servers
- 1990 BITNET connection
- 1991 Start of the CARNet (Croatian Academic and Reserach Network) pro
- 1992 First Internet connection
- 1993 Croatian Internet Top Level Domain .hr
- 1995 First ATM (155 Mbps) connection within academic network
- 2000 Croatian Internet eXchange (CIX)
- 2002 GEANT Point of Presence (PoP)
- 2002 HPC cluster Isabella established
- 2003 National grid project CRO-GRID started
- 2004 GigaCARNet network up & running
- 2005 National grid infrastructure CRO NGI up & running
- 2006 National authentication and authorization infrastructure AAI@EduHr up & running
- 2007 University e-learning strategy and E-learning center
- 2011 First computing and data infrastructure services 'from the cloud"
- 2015 New DC SRCE2 Data Center at Borongaj Campus
- 2015 Dabar national infrastructure of Digital Academic Archives and Repositories
- 2015 edu4IT New education program and certification of IT professionals in A&R



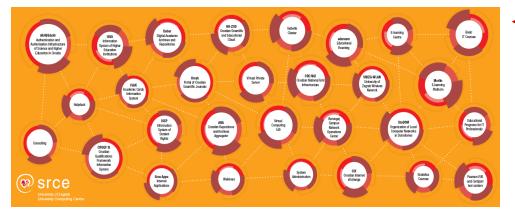


SRCE Today

srce

e-infrastructure – reliable services 24/365 + access to state-of-the-art ICT education – enabling users to use ICT & support usage of ICT in education and research

knowledge, expertise, support, cooperation



- < 50 services</p>
- 135 employees
- 9 org.units
- 2 data centers
- 3 locations in Zagreb

CIX – Croatian Internet eXchange

- Founded in 2000
- Neutral, not-for-profit
- Located in Zagreb (distributed on two locations)
- Run by SRCE University computing centre, University of Zagreb
- 34 members



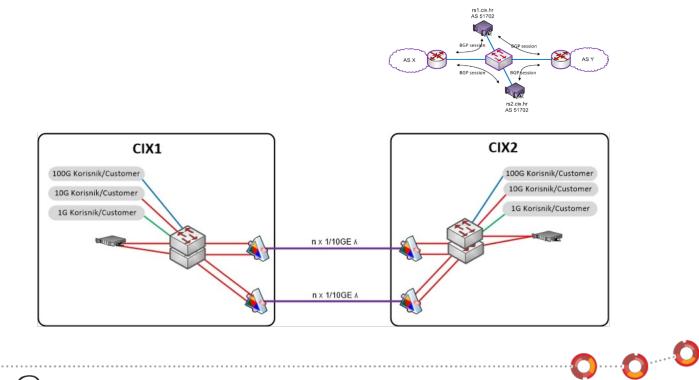
CIX - details

- Equipment : Extreme Networks, Cube Optics
- Port types : 1GE, 10GE, 100GE
- Route Servers (OpenBGPD)
- IXP manager



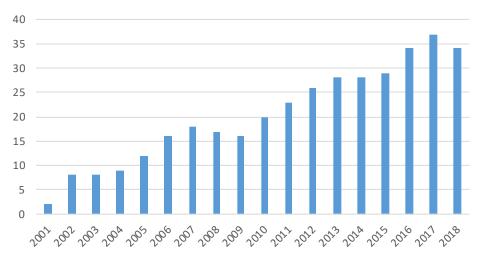


CIX infrastructure





CIX in numbers



CIX members

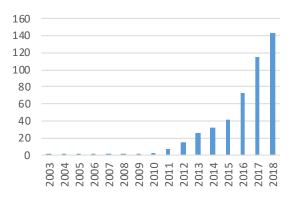
https://www.cix.hr/en/members/members

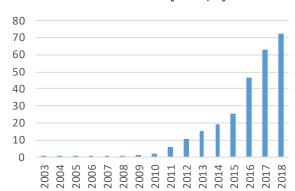
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CIX in numbers

Transferred data [PB]





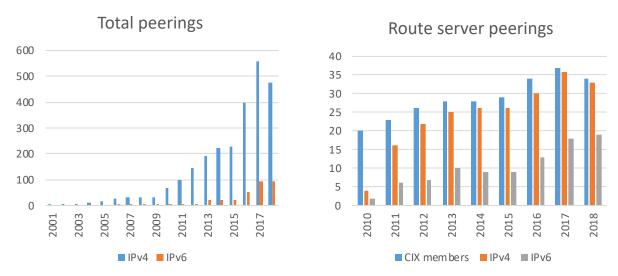
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Peak traffic [Gbit/s]

https://www.cix.hr/en/about-cix/traffic-statistics/history



CIX in numbers



https://www.cix.hr/en/about-cix/traffic-statistics/history

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Questions ?

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