



Personnel announcements

Ondřej Filip was elected Chairman of the Board of Directors of EURO-IX, Jiří Lešek is now the Vice-Chairman of the Board of Directors of NIX.CZ, Jaromír Novák is in charge of Regulatory Affairs

At the beginning of November, Ondřej Filip, the chairman of the board of directors of the Czech peering node NIX.CZ, was re-elected to lead the European Internet Exchange Association (EURO-IX). Ondřej Filip not only became a member of the board, but now participates in the management of this prestigious international organization as its chairman.



Ondřej Filip

The second personnel announcement concerns Ondřej Filip again. Together with Jiří Lešek and Milan Švácha, he was re-elected to the Board of Directors of the Czech Neutral Internet Exchange in the electronic vote of the members of the association. At the December meeting of the Board of Directors, the Board members decided on the question of leadership of this governing body for the forthcoming period. Ondřej Filip will be the chair, Jiří Lešek will be his deputy.



Jiří Lešek

The third personnel announcement looks back at a change from the second half of last year, when Jaromír Novák joined the NIX.CZ team as Partner for Regulatory Affairs. Jaromír Novák is an expert on government affairs, his expertise lies in the field of telecommunication. At NIX.CZ, Jaromír Novák is primarily responsible for monitoring and analysing changes in legislation that may affect the NIX.CZ members.



Jaromír Novák

The Legal Working Group has been reestablished

In the first half of 2020, the activities of the Legal Working Group were renewed. The aim of the group is to monitor and, where necessary, formulate comments on draft legislation and by-laws that relate to the digital space and may affect the activities of NIX.CZ members. In 2020, the working group devised and pushed through, for example, comments on the draft legislation on military intelligence (in the field of cyber defense), then on the law on crisis management or the National Telecommunication Regulator's decree on providing data for the purpose of price and parameter comparison of electronic communications services. The Legal Working Group plans to continue its activity in 2021, especially in transposition of the European Codex on electronic communications.

New networks in 2020

Alf servis	AS52092
Dr.Max	AS208060
eHAMnet	AS44712
Gransy	AS60592
HELIOS MB	AS57728
KABELOVÁ TELEVIZE CZ s.r.o.	AS49101
LAST MILE	AS56800
Netia	AS12741
Nordic Telecom	AS42908
SkylonHost	AS202297
TeSuNet	AS213387
TomaNet	AS212974
WebSupport	AS51013

NIX.CZ technology upgrade

In the second half of 2020 NIX.CZ finalized the selection and testing of new technology and is now working on a redesign and upgrade of the exchange's physical infrastructure.

Following an initial pre-selection, we tested two technologies from different vendors. Testing was performed on our premises using physical devices within LAB setup. The testing was carried out in three phases: preparation, main testing and evaluation. Each technology was tested for one month as we went through a testing script including all foreseeable scenarios we are likely to encounter in the future. Since both technologies were very similar in terms of technical specifications, we finally decided to select the vendor based on forecasted expenses.

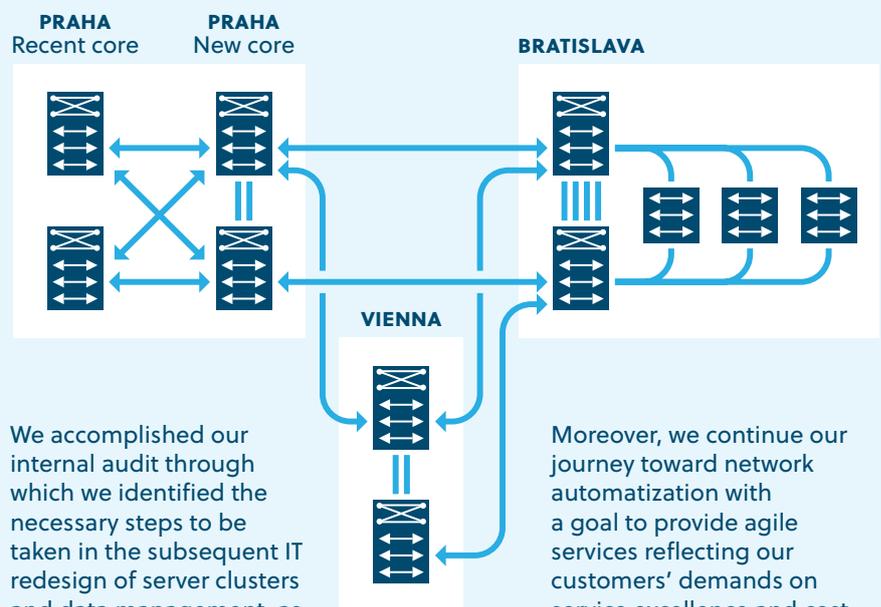
The final decision was for Cisco Nexus 9300 switches which operate the VXLAN / EVPN spine/leaf topology paradigm. The main benefit of VXLAN with a routed underlay network is that it enables a more even distribution of traffic on leased lines and circle topology, making utilization more effective. The main benefits of building the network topology using VXLAN / EVPN is to resolve issues with convergence, unutilised links, suboptimal forwarding and optimal usage of parallel links (ECMP). This new technology is more flexible and scalable.

On the selected new technology we have also successfully tested the first two 400 Gbit/s links running between two devices nearly 8000m apart, which confirms our ability to further strengthen the already strong core infrastructure of the only neutral peering exchange in the Czech Republic, NIX.CZ. Our goal is to expand our service portfolio by offering 400 Gbit/s connections to our customers in the near future.

Thanks to the new technology operating VXLAN / EVPN a network redesign and upgrade is possible. This enables an easy and

seamless migration of remote PoPs, additionally it makes an opening and operation of a new location possible, i.e. Vienna.

Redesigned topology:



We accomplished our internal audit through which we identified the necessary steps to be taken in the subsequent IT redesign of server clusters and data management, as well as the deployment of additional security services. This redesign of the internal management platform allows us to support the peering infrastructure with fully redundant and independent solutions.

Moreover, we continue our journey toward network automatization with a goal to provide agile services reflecting our customers' demands on service excellence and cost cutting, as well as to prevent mistakes and human errors.

#SAVE #MERRY #CHRISTMAS #HOLIDAYS #OR #AND
 #HAPPY #NIX.CZ #SAVE #NEW #WEEK #YEAR #PEER
 #2019 #2020 #2021 #2022 #FOREVER

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