

→ Welcome to the DE-CIX February Newsletter!

Among other topics, this issue covers the 4th Global Peering Forum, the China Telecom connection to DE-CIX and the new “Ask Dr. Peering” column which will be published monthly.

→ Global Peering Forum 4.0

DE-CIX has joined forces with Equinix, Switch and Data, Terremark, AMS-IX, LINX, and JPNAP to bring global peers together for an annual two day peering forum. This is the largest forum of the year, featuring over 175 peering coordinators who have an interest in not only peering negotiation and strategy, but also the operational aspects of peering.

GPF 4.0 took place right after NANOG and was held in Punta Cana in the Dominican Republic. Since many of the peering managers attended NANOG in Santo Domingo, the decision was made to hold GPF in the Dominican Republic, too.

Various, very interesting presentations were given. This included an update on the latest IPv6 developments given by Hurricane Electric's Martin Levy and a peering technology outlook presentation given by Lane Patterson from Equinix.

During the breaks all hosts were busy introducing peering managers to each other to support their peering negotiation activities.

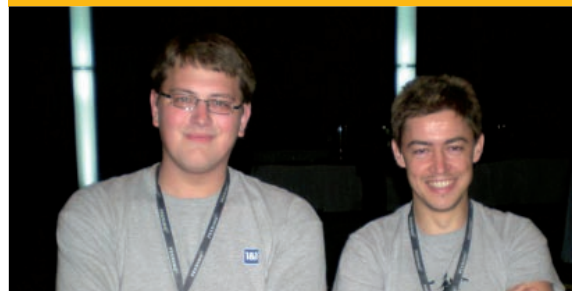
The next Peering Forum will be the European Peering Forum which will be hosted by AMS-IX, DE-CIX, LINX, and NETNOD. EPF4 will take place on September 14-15 in Copenhagen/Denmark. EPF is an event for customers of the host organizations only. Attendance is free but attendees will need to arrange their hotel and flight. For further questions about EPF4 and the sponsoring opportunities of this event please contact the host team: info@peering-forum.eu.



Peter Cohen (Switch & Data), Edwin Punt (KPN)



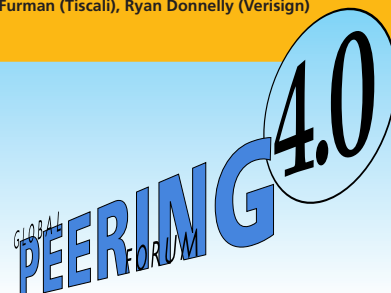
Arnold Nipper (DE-CIX), Bastiaan Spandaw (Leaseweb)



Kevin Hodle, Stefan Mink (both 1&1)



Adam Furman (Tiscali), Ryan Donnelly (Verisign)





Wentao Yang (China Telecom), Frank Orłowski (DE-CIX), David Chen (China Telecom), Bo Zhan (China Telecom) after a meeting at the China Telecom Europe Office in London in December 2008

→ China Telecom selects DE-CIX for Peering in Europe

China Telecom owns ChinaNet, the largest IP network in China and the largest Chinese language content platform in the world, has chosen DE-CIX to provide Peering capacity in Europe.

ChinaNet provides an access to the most diversely routed and highest capacity IP backbone in the country, over 700G of domestic backbone active core network capacity and 400G international backbone bandwidth. Currently CHINANET has more than 10 million registered customers and provides daily access for more than 28 million people. China Telecom (Europe) was established in 2006 and has been providing supremely reliable and secure connectivity to multinational companies between Europe and Asia.

For David Chen, Director of Network Planning and Operation at China Telecom (Europe), peering at DE-CIX is a logical step. Being at DE-CIX, the largest peering exchange in the world has already been fruitful, says Chen: "DE-CIX in Frankfurt is much more than a German establishment; DE-CIX is international. In less than two weeks since we have been with DE-CIX, we have taken fast steps forward and have already won network connections with Providers from all over the world, incl. players in the Middle East and Russia." The result is seen in a positive light by David Chen: "As far as the activities of China Telecom (Europe) are concerned, it has already proven to be very, very helpful and sensible to be with DE-CIX."

If you would like to peer with China Telecom please contact net@chinatelecomeurope.com.

→ Dr. Peering.net – the Peering Knowledge Center

The idea for the Dr. Peering website site came from two thoughts. Bill Norton, the retired Cofounder/Chief Technical Liaison of Equinix and a well known publisher of Peering Whitepapers, kept getting the question "Which version of the peering white paper was the latest?" and over beers at the recent Global Peering Forum, Frank Orłowski from DE-CIX had the idea for Bill to write an exclusive DE-CIX newsletter column, an "Ask Dr. Peering" advice column - a quarter to half page mini monthly white paper to help ease new peers into the peering community.

The Dr. Peering site is designed to provide a repository to the community white papers, and to archive the Ask Dr. Peering columns (after they go into the DE-CIX newsletter) along with material that couldn't fit into the article.

In other words, Dr. Peering.net is meant to be a kind of information repository for the peering community and to educate and evangelize peering. The site is pretty new and continues to evolve.

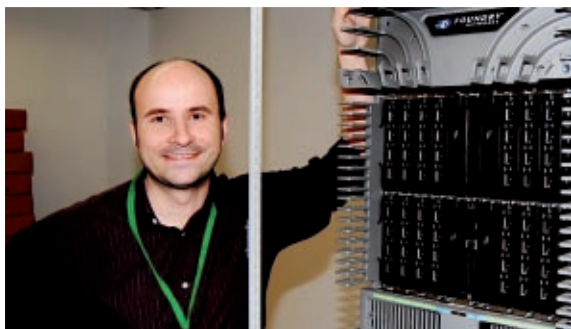
DE-CIX is proud to be the exclusive Internet Exchange sponsor for the Dr. Peering website project.

Visit <http://www.drpeering.net> for more information.

→ First new DE-CIX Core Switch implemented successfully

After weeks of testing, planning, and preparation, DE-CIX engineering staff moved the first new Foundry MLX32 switch into operation. Two of these switches will replace the existing Force10 switches in the core network.

At the beginning of DE-CIX's weekly maintenance window on February 18th, DE-CIX engineers started to move the backbone circuits from the backup core



Daniel Melzer (DE-CIX), MLX32 (Foundry)

switch (Force10 E1200) to the new Foundry switch. At 5 am UTC engineering staff did a planned failover from the production Core switch to the new Foundry switch. The failover took less than 10ms and the Foundry switch took over without any problems. Initially the new switch is equipped with 80 x 10Gbps ports and does scale up to 128 x 10Gbps ports.

“My team did a great job in planning and implementing the new core switches. This new platform does give us the room to support the growing 10GE demand by both existing and new customers,” says Arnold Nipper, CTO/COO of DE-CIX.

On March 4th the second MLX32 switch will be moved into operation. If you have any questions about the ongoing implementation of the new DE-CIX core please contact engineering@de-cix.net.

→ PLNOG 2 & Warsaw Roundtable

The recent PLNOG meeting took place in Warsaw from January 15-16, 2009. With around 200 registered attendees and many interesting presentations and social



engineering opportunities, it was a great meeting and DE-CIX is proud to be one of the event sponsors.

On day 1, DE-CIX's Arnold Nipper gave his presentation about scaling IX's to 1Tbit/s and beyond followed by a

lively discussion with the audience. The peering panel took place on day two of the conference and was moderated by Sylvester Biernacki from PLIX (Polish Internet Exchange). Frank Orłowski from DE-CIX gave a presentation showing the latest developments at DE-CIX.

On the evening before PLNOG2 started, DE-CIX invited customers and prospects from the region to a peering roundtable meeting and dinner right in the heart of Warsaw old town.

For more information about PLNOG and future events, please visit <http://plnog.pl/>.



→ DE-CIX Balkans Roundtable Meeting & Dinner

The next DE-CIX roundtable meeting and dinner is coming up in Sofia, Bulgaria on March 26th.

DE-CIX invites both customers and prospects from the Balkans region to its next roundtable meeting and dinner. This meeting is designed to bring peering managers from the region together to discuss peering issues which are relevant to providers in the Balkans region.

If you would like to attend, please contact frank.orlowski@de-cix.net.

→ New Column


Ask Dr. Peering is brought to you by drpeering.net and DE-CIX, the exclusive IX sponsor of the Dr. Peering Internet peering knowledge center. If you have a peering

related question, email to askdrpeering@de-cix.net and your question might be answered in next month's release.

ASK DR.PEERING




Brought to you by www.drpeering.net and DE-CIX. Any question: send an email to askdrpeering@de-cix.net

 Dear Dr. Peering,

I heard that peering can potentially save money and improve performance, but can peering actually increase revenue?

Pierre

 Thank you for that question, Pierre. We focus so much time on the Peering Breakeven Point (the point where the cost of peering exactly equals the cost of transit) that we tend to overlook the other benefits of peering, including incremental revenue flow. The logic came from the field, from Dave Rand of AboveNet in particular, and it goes like this:

Internet Service Providers charge transit fees based on the amount of traffic delivered. Therefore, the more traffic delivered the more revenue the ISP makes.

So what hinders traffic volume?

1. Packet loss.
2. Latency.

Peering, by definition, provides the *direct* exchange of traffic to each other's customers. The resulting shorter path (generally) means lower latency, so the TCP window opens up faster, more traffic is exchanged, and more revenue is generated. More importantly, peers have some ability to shut down, or redirect around congested paths.

→ Click here to read the full article please visit The Internet Peering Knowledge Center "Dr. Peering"
http://www.drpeering.net/a/Ask_Dr._Peering/Entries/2009/2/13_Can_Peering_increase_ISP_Revenue.html

→ UPCOMING EVENTS:

If you would like to attend any of these events, please register:

ICANN Meeting, March 1-6, Mexico

<http://public.icann.org/>

Google IPv6 Conference, March 19-20, Mountain View

<http://sites.google.com/site/ipv6implementors/>

DE-CIX Peering Roundtable & Dinner, March 26, Sofia**IETF74, March 22-27, San Francisco**

www.ietf.org

MENOG4, April 5-9, Manama/Bahrain

www.menog.net

Capacity Balkans, April 27-28, Bukarest

www.telcap.co.uk

RIPE58, May 4-8, Amsterdam

www.ripe.net

AFNOG2009, May 10-22, Cairo

www.afnog.org

German IPv6 Conference, May 28-29, Frankfurt**St. Petersburg Peering Forum, May, St. Petersburg/Russia****NANOG46, June 14-17, Philadelphia**

www.nanog.org

Telx CBX, June 18, New York

www.telx.com

Capacity CEE, June 29-30, Prague

www.telcap.co.uk

EPF4, September 14-15, Copenhagen

www.peering-forum.eu

Check the listed websites for more information. Listings in **red** are hosted or sponsored by DE-CIX.

→ NEW DE-CIX PARTICIPANTS

DE-CIX welcomes its most recent customers:

- China Telecom
- Qatar Telecom
- Telekom Malaysia

Soon to be connected:

- Rostelecom, Russia
- Starnet, Moldova
- Filoo, Germany
- UPL/Interfiber, Czech Republic

Upgraded customers:

(since January 1st, 2009)

- NTT (AS2914)
- Etisalat (AS8966)
- First Colo (AS44066)
- NetAssist (AS29632)
- LeaseWeb (AS16265)
- domainfactory (AS34011)
- NetByNet (AS12714)
- P&T Luxembourg (AS6661)
- eSolutions (AS44042)

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