

DE-CIX Madrid Internet Exchange breaks record: 1 terabit per second data throughput

Since the start of the pandemic in early 2020, data throughput at DE-CIX Madrid has increased by close to 140%, which brings to light the importance of the Iberian Peninsula in the Internet ecosystem.

Madrid (Spain), 6 September 2022: During the night of 6 September, DE-CIX Madrid, one of the leading neutral Internet Exchanges in Southern Europe and heart to the largest interconnection ecosystem in the region, recorded a new traffic peak record of 1 Terabit per second (Tbps). This milestone coincided with the first day of the Champions League, with the matches between Real Madrid and Celtic and Sevilla and Manchester City. 1 terabit per second corresponds to the simultaneous transmission of approximately 220,000 videos in HD quality, or a data volume of approximately 220 million (220,000,000) written A4 pages - a stack more than 22 kilometers high.

This figure certifies the upward trend in data traffic in this region, which has seen several record peaks since the start of the pandemic in 2020, with an increase of close to 140% in peak traffic at DE-CIX Madrid in that time. Compared to this time last year, the peak traffic has risen by close to 70%.

With this milestone, DE-CIX Madrid will be the fourth DE-CIX IX to cross 1 Terabit of peak traffic, following DE-CIX Frankfurt, DE-CIX New York, and DE-CIX Mumbai. DE-CIX Frankfurt is one of the largest Internet Exchanges in the world, with an accumulated data traffic in 2021 of close to 30 exabytes and almost 1100 connected networks. In fact, last night it broke the barrier of 13 terabits per second data throughput for the first time.

“Streaming sport events, online gaming, or remote work applications are having a big influence on data flows now that our lives depend on the Internet, and our habits are reflected in data traffic. Interconnection ecosystems such as DE-CIX’s network of Internet Exchanges ensure that these activities are performed seamlessly, securely and with the lowest latency possible,” says Ivo Ivanov, CEO of DE-CIX. “In addition, we see that digitalization has received a boost, with growing demand for data capacity at all levels over the last two years, with and through Covid-19. In particular, large enterprises and stock corporations are adapting their interconnection

strategies and specifically seeking consultations and data exchange at and via Internet Exchanges such as DE-CIX.”

Established in 2016, DE-CIX Madrid celebrates its 6th anniversary in 2022, having developed from the fastest growing IX worldwide to the heart of the largest neutral interconnection ecosystem in Southern Europe. DE-CIX operates IXs in five different locations in the region, Lisbon, Madrid, Barcelona, Marseille and Palermo. DE-CIX currently operates close to 40 Internet Exchanges around the world.

Background information: What is a terabit per second? What does data throughput of 1 terabit per second mean?

- A terabit per second, Tbit/s or Tbps, is a dimension for the transmission speed of data.
- 1 terabit per second corresponds to the simultaneous transmission of approximately 220 thousand (220,000) videos in HD quality, or a data volume of approximately 220 million (220,000,000) written A4 pages (a stack more than 22 kilometers high).
- 1 Terabit per second is 10^3 Gbit/s, 10^6 Mbit/s, 10^9 kbit/s or 10^{12} bit/s, i.e. around 1,000,000,000,000 bits per second.
- The next lower data rates are measured in gigabits per second (Gbit/s) and megabits per second (Mbit/s).

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About DE-CIX

DE-CIX (German Commercial Internet Exchange) is the world’s leading operator of Internet Exchanges (IXs). At its close to 40 locations in Europe, Africa, North America, the Middle East, India, and Asia, DE-CIX interconnects thousands of network operators (carriers), Internet service providers (ISPs), content providers and enterprise networks from more than 100 countries, and offers peering, cloud, and interconnection services. DE-CIX in Frankfurt, Germany, is one of the largest Internet Exchanges in the world, with a data volume of close to 30 Exabytes per year (as of 2021) and close to 1100 connected networks. More than 200 colleagues from over 30 different nations form the foundation of the DE-CIX success story in Germany and around the world. Since the beginning of the commercial Internet, DE-CIX has had a decisive influence – in a range of leading global bodies, such as the Internet Engineering Task Force (IETF) – on co-defining guiding principles for the Internet of the present and the future. As the operator of critical IT infrastructure, DE-CIX bears a great responsibility for the seamless, fast, and secure data exchange between people, enterprises, and organizations at its locations around the globe.

Further information at www.de-cix.net

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