

BEYOND.PL CAMPUS POZNAN CONNECTIVITY

Carriers available for cross connects

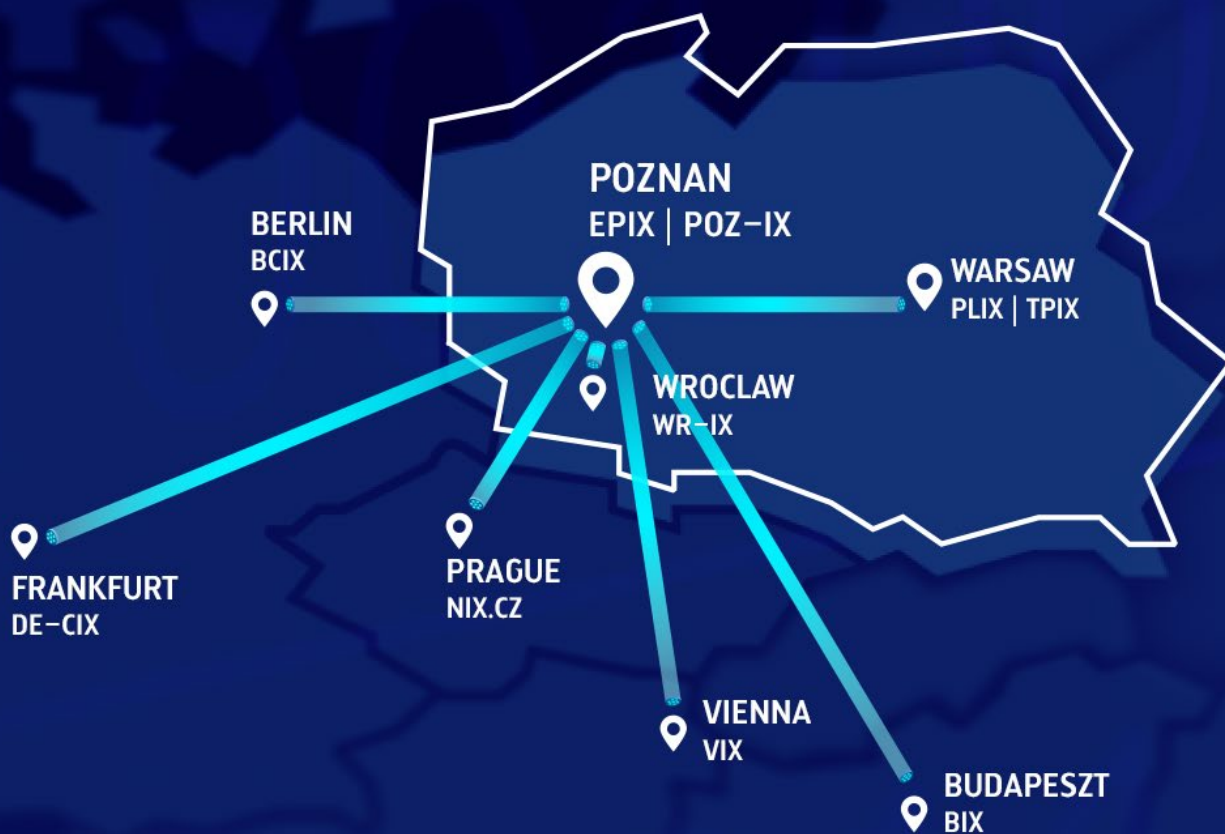
| Tier 1 Carriers | Link |
|------------------------------------|--|
| Arelion (formerly Telia Center) | www.arelion.com |
| GTT | www.gtt.net |
| Liberty Global (UPC) | www.libertyglobal.com |
| Colt (formerly Lumen Technologies) | www.colt.net |
| Orange | www.orange.pl |
| T-Mobile | www.t-mobile.pl |
| VERIZON (available via a TPIX) | www.verizon.com |



| National / CEE coverage carriers | Link |
|----------------------------------|--|
| Atman | www.atman.pl |
| Cogent Communications, Inc. | www.cogentco.com |
| Emitel S.A. | www.emitel.pl |
| EXATEL S.A. | www.exatel.pl/en |
| HAWE TELEKOM | www.hawetelekom.com |
| NASK | www.en.nask.pl |
| Netia S.A. | www.netia.pl |
| Pioneer / POZMAN | www.psnk.pl |
| POLKOMTEL | www.plus.pl |
| TK Telekom (Netia Group) | www.netia.pl/en/operators |
| W-NET | www.w-net.us/en |

| Regional Carriers | Link |
|----------------------------------|--|
| East and West | www.eastwest.com.pl |
| Echostar | www.echostar.pl |
| HORIZONT TECHNOLOGIE INTERNETOWE | www.horyzont.net/en |
| INEA S.A. | www.inea.pl |
| Maverick | www.maverick.com.pl |
| NETRONIK | www.netronik.pl |
| VirtuaOperator | www.virtuaoperator.pl |





Internet Exchange Points ON SITE

| IX in Beyond.pl | Link |
|---|--|
| FRANKFURT DE-CIX direct access via Beyond East-West Corridor | www.de-cix.net |
| POZNAN EPIX – national node largest Polish Internet Exchange Point | www.epix.net.pl |
| POZNAN POZ-IX Poznan Internet Exchange | www.pozix.pl/en |

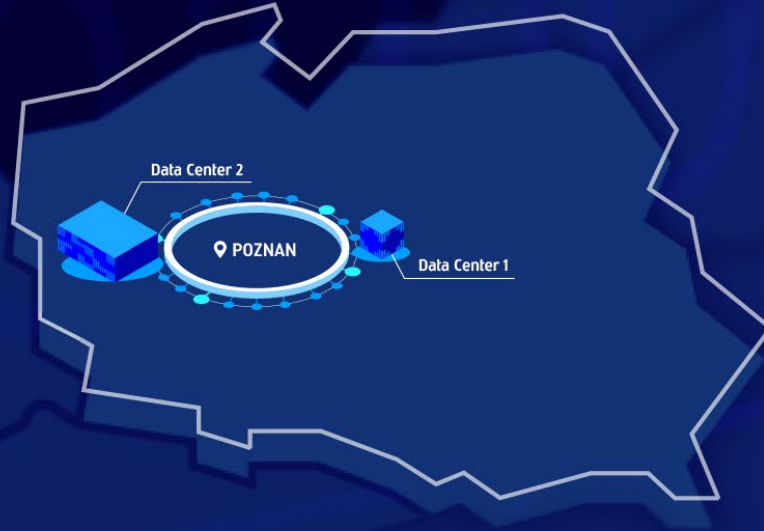




CEE Internet Exchange Points

| CEE IX Points active via direct Layer 2 tunnels | Link |
|--|--|
| BERLIN BCIX Berlin Internet Exchange | www.bcix.de |
| BRATISLAVA SIX Slovak Internet Exchange | www.six.sk |
| BUDAPEST BIX Budapest Internet Exchange | www.bix.hu |
| PRAGUE PEERING.CZ An Internet Exchange point connects 10 DCs across Czech Republic, Slovakia, Austria and Germany | www.peering.cz |
| PRAGUE NIX.CZ Czechia Neutral Internet Exchange | www.nix.cz/en |
| VIENNA VIX Vienna Internet Exchange | www.vix.at |
| WARSAW PLIX Equinix | www.ix.equinix.com |
| WARSAW TPIX Orange | www.tpix.pl |
| WROCLAW WR-IX Wroclaw Internet Exchange | www.wrix.org |





Megaport POP in Beyond.pl Data Center 2



www.megaport.com

Data Center Interconnect

750+ Enabled Data Centers worldwide

Cloud Connectivity

360+ Service Providers





Beyond East–West Corridor (FRA, POZ, WAW)

- POP FRA - 10/25/100 Gbit Ports Available
- POP POZ - 10/25/100 Gbit Ports Available
- POP WAW - 10/25/100 Gbit Ports Available

Carriers available via Beyond.pl Frankfurt POP

Additional 506 carries available through cross-connect via Beyond.pl Frankfurt POP.

Internet exchange points available via Beyond.pl Frankfurt POP

IX Peering

IX Peering

IX Peering

Cloud Connects available via Beyond.pl Frankfurt POP

Cloud Connect

Cloud Connect

Cloud Connect

Cloud Connect

Cloud Connect

Cloud Connect

Cloud Connect

Cloud Connect



POP Poznan

| Beyond.pl Fiber Optic RING Poznan | Link |
|---|--|
| <p>Old Brewery (Stary Browar) BeyondtheEDGE Data Center 1 Polwiejska 42 Street</p> <p><i>Edge Data Center 1 located in the very center of Poznan in a contemporary shopping centre and an authentic centre of culture and education operating since 2005 with 100% uptime.</i></p> | <p>www.starybrowar5050.com/en www.beyond.pl</p> <p>Google Maps</p> |
| <p>Beyond.pl Poznan Data Center Campus (DC2, DC3, DC4) A. Kreglewskiego 11 Street</p> <p><i>42MW multi-tier campus with SLA up to 99,9999%. The one of the five EU's DC in with Rated 4 ANSI/TIA-942 Certification. Running with 100% uptime since launched in 2016.</i></p> | <p>www.beyond.pl</p> <p>Google Maps</p> |
| <p>Altum Tower - Poznan University of Economics and Business Powstancow Wlkp. 16 Street</p> <p><i>University of Economics and Business iconic skyscraper located in direct city center.</i></p> | <p>www.ue.poznan.pl/en</p> <p>Google Maps</p> |
| <p>Poznan Supercomputing and Networking Center (PSNC) Jana Pawla 10 Street</p> <p><i>PSNC an internationally known node of the European Research Area in the field of IT infrastructure of science and an important R&D center in the field of information and communication technologies (ICT). PSNC designed and built the Metropolitan Network POZMAN, High Performance Computing Center and the national broadband network PIONIER, maintained and still developed by PSNC. PSNC is one of the top Polish R&D institutions focused on the ICT sector cooperating on multiple global projects.</i></p> | <p>www.psnc.pl</p> <p>Google Maps</p> |



POP Poznan

| Dark Fiber passive Connection Points | Link |
|---|--|
| <p>Baltyk Tower Roosevelta 22 Street</p> <p><i>One of the top commercial buildings in the center of Poznan occupied mainly by companies from the field of finances and new technologies.</i></p> | <p>www.baltykpoznan.pl/en</p> <p>Google Maps</p> |
| <p>Nobel Tower Dabrowskiego 77A Street</p> <p><i>Nobel Tower is a science and technology park building located in the heart of Poznan.</i></p> | <p>www.nobeltower.pl</p> <p>Google Maps</p> |
| <p>Orange 23RD Luty Street</p> <p><i>Orange Polska is listed on the Warsaw Stock Exchange (WSE) and is part of the Orange Group, a leading provider of telecommunications services in Poland, Europe and worldwide. Orange Polska provides mobile and fixed-line telecommunications services. In addition, it provides ICT (Information and Communications Technology) services.</i></p> | <p>www.orange.pl</p> <p>Google Maps</p> |
| <p>Enea - Power Substation/Staroleka</p> <p><i>Enea Group is one of the largest utility companies in Poland. The company produces energy which it distributes and sells to consumers and business/ industrial customers. The leading role in the Group is played by Enea SA which is responsible for the sale of electricity. It has been listed on the Stock Exchange in Warsaw since 2008.</i></p> | <p>www.enea.pl/en</p> |
| <p>Enea - Power Substation / Zegrze</p> <p><i>As above</i></p> | <p>www.enea.pl/en</p> |
| <p>Greater Poland Broadband Network (WSS) 28 Czerwca/Hetmanska Street</p> <p><i>A public entity whose goal is to design, build and operate a fiber-optic network in the Wielkopolska Region.</i></p> | <p>www.szerokopasmowa.wielkopolska.pl</p> <p>Google Maps</p> |
| <p>TK Telekom</p> <p><i>TK Telekom is a modern and dynamically developing telecommunications operator, owned 100% by PKP S.A. the national Polish railway provider. The company manages one of the largest teleinformation networks in Poland, with nearly 30,000 km of lines.</i></p> | <p>www.tktelekom.pl</p> |
| <p>Poznan Main Railway Station Dworcowa 2 Street</p> <p><i>The main railway station for the city of Poznan. The station and the surrounding area are being completely rebuilt, and connected to the bus station and the international congress/convention centre. Currently it is an integrated transport hub and shopping centre.</i></p> | <p>www.pkp.pl/en/stations</p> <p>Google Maps</p> |



| Dark Fiber passive Connection Points | Link |
|---|---|
| Garbary Railway Station <i>One of Poznan's railway stations. Rebuild and opened in 2018.</i> | Google Maps |
| Mars Poland Obodrzycka 69 Street <i>A production facility of the multinational corporation in Poznan since 2008.</i> | www.pol.mars.com Google Maps |
| Jan Nowak Jezioranski Roundabout | Google Maps |
| Staroleka Roundabout | Google Maps |
| Garbary Str./Dominikanska Str. Intersection | Google Maps |
| Starolecka Str./Forteczna Str. Intersection | Google Maps |



POP Warsaw

| Beyond.pl Fiber Optic RING Warsaw | Link |
|--|--|
| <p>Ufficio Primo Wspolna 42 Street</p> <p><i>Ufficio Primo is located in the very centre of Warsaw, app 200 meters from the LIM Data Center (see below) and is one the most prestigious office space location in Warsaw.</i></p> <p><i>The building provides 6,000 square metres of functional and inspirational workspace and facilities for business and cultural events, combining the latest office and conference systems with elegant interiors and the very best quality. The Hyper Edge Data Center 5 within next 12 months will be* located in an underground nuclear bunker under this building.</i></p> <p><i>*pending administrative approval</i></p> | <p>www.ufficioprimo.pl/en</p> <p>Google Maps</p> |
| <p>LIM Data Center - Hotel Marriott Jerozolimskie 65/67 Avenues</p> <p><i>LIM Data Center is a special place for telecommunications services in Warsaw. Uniquely located, LIM DC is a fully neutral colocation space with a history of 20 years of commercial operations, providing access to nearly 100 telecom carriers from both Poland and abroad. Historically this location has been the very center of Polish communication.</i></p> | <p>www.limdc.pl/en</p> <p>Google Maps</p> |
| <p>Atman Data Center 1 Grochowska 21A Street</p> <p><i>Atman Data Center Warsaw-1 is one of the buildings on the ATMAN data center campus. The head office of ATM S.A. is also located here.</i></p> | <p>www.atman.pl/en</p> <p>Google Maps</p> |
| <p>Atman Data Center 2 5 Konstruktorska Street</p> <p><i>Atman Data Center Warsaw-2 is located in the very business center of Warsaw. It contains the main node of Thinx Internet exchange point.</i></p> | <p>www.atman.pl/en</p> <p>Google Maps</p> |
| <p>Netia Data Center Poleczki 13 Street</p> <p><i>Data Center close to business center in Warsaw.</i></p> <p><i>Owned by Netia, the operator of the second-largest state-of-the-art, redundant, backbone telecommunication network in the country, spanning approximately 20,000 km.</i></p> | <p>www.netia.pl/en</p> <p>Google Maps</p> |
| <p>Orange – main Data Center Kazimierzowska 53/55 Street</p> <p><i>Orange Polska is listed on the Warsaw Stock Exchange (WSE) and is part of the Orange Group, a leading provider of telecommunications services in Poland, Europe and worldwide. Orange Polska provides mobile and fixed-line telecommunications services. In addition, it provides ICT (Information and Communications Technology) services.</i></p> | <p>www.orange.pl</p> <p>Google Maps</p> |



| Beyond.pl Fiber Optic RING Warsaw | Link |
|---|--|
| <p>Krucza House Krucza 24/26 Street</p> <p><i>Krucza House is a six-story commercial building located in the very center of Warsaw. The property has a leasable area of 6,200 square meters, including a ground floor intended for commercial tenants.</i></p> | <p>www.kruczahouse.pl</p> <p>Google Maps</p> |
| <p>Warsaw Stock Exchange Ksiazeca 4 Street</p> <p><i>Warsaw Stock Exchange is the largest stock exchange of financial instruments in the region of Central and Eastern Europe and a rapidly growing exchange in Europe.</i></p> | <p>www.gpw.pl</p> <p>Google Maps</p> |
| <p>Central Tower (aka Orco Tower) Jerozolimskie 81 Ave.</p> <p><i>Central Tower is a 26-storey skyscraper with over 12,200 sq m of office space for lease. The building is located in the immediate vicinity of the Central Railway Station. Nearby there are: Zlote Tarasy shopping center, Marriott Hotel and other prestigious facilities. Owned by CPI FIM SA.</i></p> | <p>www.cpifimsa.com</p> <p>Google Maps</p> |
| <p>Ministry of National Defence (MON) Niepodlegosci Ave./Nowowiejska Str.</p> | <p>Google Maps</p> |
| <p>Statistics Poland (GUS) Niepodlegosci Ave./Wawelska/Armii Ludowej Str.</p> | <p>Google Maps</p> |
| <p>The Agricultural Social Insurance Fund (KRUS) Niepodlegosci Ave. /Batorego St.</p> | <p>Google Maps</p> |
| <p>Niepodleglosci Ave. /Madalinskiego St. Intersection</p> | <p>Google Maps</p> |
| <p>Nowogrodzka St. /Emilii Plater St. Intersection</p> | <p>Google Maps</p> |
| <p>Wilcza St. /Marszalkowska St. Intersection</p> | <p>Google Maps</p> |
| <p>Marszalkowska St. /Zurawia St. Intersection</p> | <p>Google Maps</p> |
| <p>Niepodleglosci Ave./Madalinskiego St. Intersection</p> | <p>Google Maps</p> |
| <p>Ujazdowskie Ave./Wilcza St. Intersection</p> | <p>Google Maps</p> |
| <p>Plac Trzech Krzyzy/Bracka St. /Zurawia St. Intersection</p> | <p>Google Maps</p> |

