



INTEGRATION & INTERNET

cityLAN

Optimally integrate your individual sites.

With **cityLAN**, LINZ AG TELEKOM offers you a fast and future-proof fibre-optic network with a transmission speed from 25 Mbit/s to 10 Gbit/s. Integrating your sites thus becomes a piece of cake. In cooperation with reliable partners, we can offer our services even beyond the limits of our service area. And by combining **cityLAN** and **cityWEB** we can also provide you with a fast Internet access.

The **cityLAN** advantages at a glance:

- implement your own network
- upgrade to greater bandwidths possible any time
- allows prioritisation of data transmission (QoS)
- guaranteed availability according to the selected Service Level Agreement (SLA)
- future-proof fibre-optic technology



Anything is possible.
With **cityLAN** even more than that.

With **cityLAN** you do not only benefit from all the advantages of a better integration of your sites. It also opens the door to the services of the IT and Data Center Linz.

cityLAN provides access to the wide range of products of LINZ AG TELEKOM. Choose from a variety of tailored combinations.

Get information on Integration & Internet, Housing & Hosting, Telephone & Video as well as Security & Monitoring. What are you waiting for? www.linzag-telekom.at

LINZ AG
TELEKOM

Details

Technical data:

- CarrierEthernet – Technology
- backbone bandwidth: 10 Gbit/s
- meshed core and access area with ring topology
- 99,9 % own infrastructure (optical fibre and copper core)
- backbone redundancy with average switching times of 2s
- uninterrupted power supply at all sites within the LINZ AG network

Network Management System

- central network management system:
 - integrated fault correlation for quick fault localisation
 - automatic notification of the team of technicians
 - central configuration and administration of terminals

Security

- MAC addresses – Limit:
 - EPL (Ethernet Private Line, P2P): unlimited
 - EVPL (Ethernet Virtual Private Line, P2P): unlimited
 - EP-LAN (Ethernet Private LAN, MP2MP): max. 500¹
 - EVP-LAN (Ethernet Virtual Private LAN, MP2MP): max. 500¹
- Layer2 Security Features

Variants (bandwidth limitation in Mbit/s)

- from 25 Mbit/s to 10 Gbit/s

cityLAN Service

- transparent Layer-2-Ethernet Service
- point-to-point and multipoint-to-multipoint connections
- redundant service connection within the entire provider network²
- bandwidths from 25 Mbit/s to 10 Gbit/s
- bandwidth limitation by policing^{3,5}
- 100 % guaranteed bandwidth (100 % CIR, no EIR)²

Interface configurations

- FDH/HDX/AUTO
 - electrical: 10 Mbit/s, 100 Mbit/s, 1 Gbit/s
 - optical: 1Gbit/s, 10Gbit/s
- transfer sockets:
 - electrical (RJ45)
 - optical (SX, LX/LH, ZX, BX-U/D, SR, LR, ER, ZR)
 - standard: UNI transfer, NNI transfer possible
- MTU size:
 - transfer by end device up to 1916 Bytes
 - transfer optical up to 9000 Bytes
- QoS-transparent
 - (CoS, IP-DSCP, IP-Precedence, MPLS-Exp.)

- broadcast/multicast – transparent
- frame loss: max. 0,0001 %
- RTD / Jitter: upon request (depending on end device, mentioned in the acceptance/test protocol)
- RFC2544-acceptance test with test protocol^{2,4} (test protocol is sent to customers upon completion, RTD / Jitter included)
- VLAN-transparent (802.1Q)
- VMAN-transparent
- Layer2 PDU-transparent (STP, VTP, CDP)

Service Level Agreement (SLA)

- central Network Operation Center (NOC)
- SLA availability from 99,0 % – 99,95 % per year (depending on the SLA selected)
- technical support 7 x 24
- response time < 4 hours to < 1 hour (depending on the SLA selected)
- time to repair of availability down to 4 hours (depending on the SLA selected)
- service availability up to 00:00 – 24:00, daily
- SLA calculation via ticketing system
- online SLA monitoring with optional add-on cityMON

MEF Certified Equipment (MEF 9, MEF 14)

MEF Certified Services (MEF 9, MEF 14)

Quality of Service (optional)¹

- traffic prioritising through predefined categories
- hierarchical Quality-of-Service can be implemented (H-QoS)
- prioritisation according to: CoS, IP-DSCP, IP-TOS, IP-Precedence, MPLS-Exp.
- change in customer prioritisation possible (QoS-Mapping)

Feature sets (optional)

- Link Loss Carry Forward (LLCF)
- FlexLink for Backup-Hot Standby or Backup-Cold Standby
- several redundancy types to select from
- bundling of bandwidths via Etherchannel
- exchange possible in Vienna and Salzburg through own DWDM infrastructure

¹ upon agreement with customer

² standard, no extra charge

³ shaping possible with hierarchic QoS

⁴ test of throughput, latency (RTD) and jitter with all RFC2544 frame sizes

⁵ bursting permitted (please request details on burst rates)

Possible combinations

cityWEB (Internet access)

cityPROTECT (firewall, antivirus and antispam systems)

citySTORAGE (storage solution)

cityHOST (hosting)

cityBACKUP (backup solution)

cityVIEW (video monitoring)

cityVOICE (telephone)

citySITE (housing)

cityMON (monitoring tool)

PEERING (interconnecting networks)

LINZ AG TELEKOM certification according to ISO/IEC 27001, ISO 9001, OHSAS 18001

Get in touch for a face-to-face consultation.

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