

ENX Service Provider Datasheet

ENX powered by T-Systems

ENX is a leading standard for secure and reliable communication in the automotive industry. Developed and governed by ENX Association, its use has been growing constantly since inception in 2000. Today it supports hundreds of applications in critical areas like engineering, finance, logistics and supply chain management. ENX accesses are offered worldwide by leading telecommunication providers, certified by ENX Association. This data sheet is designed to give you a quick overview on one of them, T-Systems.

Why choose T-Systems for your ENX needs?

T-Systems is the best choice as your ENX Certified Service Provider. There are several good reasons to choose T-Systems:

- T-Systems builds on more than 10 years of experience in delivering ENX services to automotive customers.
- That experience is recognised in a high customer satisfaction and makes T-Systems a market leader with the largest number of ENX accesses among all providers.
- The specific ENX account management and operation with in-depth automotive competency is where we differentiate ourselves from other providers.
- T-Systems offers a complete ENX access portfolio on an international scale.
- For requirements where the customer business depends on the availability of ENX communication, T-Systems offers a fully-redundant High Availability option – many automotive manufacturers and suppliers are using this high-end solution.
- T-Systems provides value-added services like EDI clearing or trusted collaboration services.



T-Systems

T-Systems is Telekom Deutschland's corporate customer arm. Using a global infrastructure of data centers and networks, T-Systems operates information and communication technology (ICT) solutions for multinational corporations and public sector institutions. With offices in more than 20 countries and global delivery capabilities, T-Systems serves the public sector and companies in all industries with a specific focus on the automotive industry.



T-Systems ICT Portfolio

As a driver of innovation, T-Systems provides ICT solutions. Those solutions are based on the T-Systems modular service portfolio including ICT outsourcing solutions on top of standardised IT and TC infrastructure and application services such as:

- Ethernet-VPN and IP-VPN
- Managed Inhouse and Security services
- Cloud services (IaaS, SaaS)
- Application operations for SAP®
- Unified Communications and Collaboration Services

T-Systems IP-VPN Offering

IntraSelect is based on an MPLS platform managed for voice, data, multimedia and business applications. Today, T-Systems operates more than 200 MPLS PoPs servicing more than 80.000 customer sites with 278.000 customer routers and switches worldwide. *IntraSelect* offers customers of any size and from all industries to integrate their sites and mobile users – and even to implement extranets. The *Extranet* feature allows the exchange of highly sensitive data between different corporations and to take communication and international collaboration to the next level. The *Extranet Solution ENX* offer is based on *IntraSelect*. *IntraSelect* delivers flexible and scalable bandwidths with Class of Service and a comprehensive General Service Level Agreement. A range of additional services complement the offering.

T-Systems meets all customer ENX requirements along the automotive value chain.

.. T .. Systems ..

Automotive Competence

As market leader in Europe for the automotive industry with over 5000 experts, T-Systems provides ICT solutions for all those involved in the automotive value chain: automotive manufacturers, suppliers and dealers. From consulting, planning and implementation to complete outsourcing, we take on all areas of automotive ICT. Focus topics are Product Lifecycle Management (PLM), Supply Chain Management, Sales & After Sales as well as Embedded Systems. The ICT Automotive Offering includes solutions such as:

- Connected Car (Connecting vehicles to the Internet and business processes)
- Dealer Management Systems (DMS)
- Product Data Management
- Extranet ENX

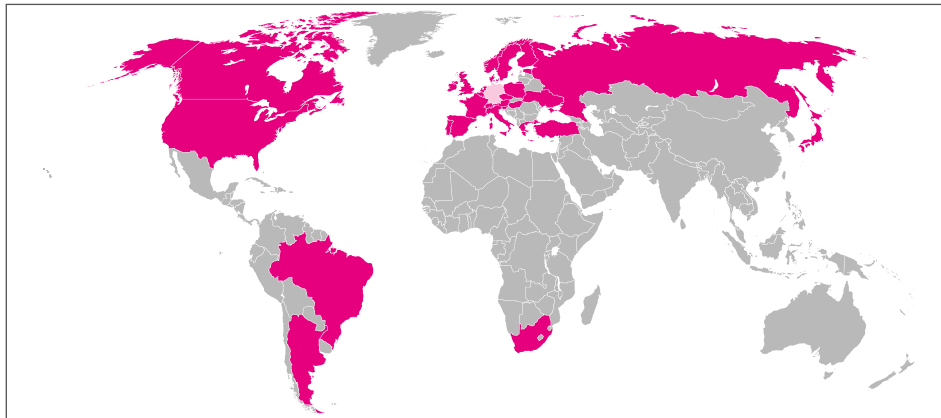
"T-Systems has been our ENX provider for more than 10 years. During this time Magna has been convinced of the high quality and reliability of the T-Systems ENX product – ENX meets Magna's business demands!"

Kurt Siegl

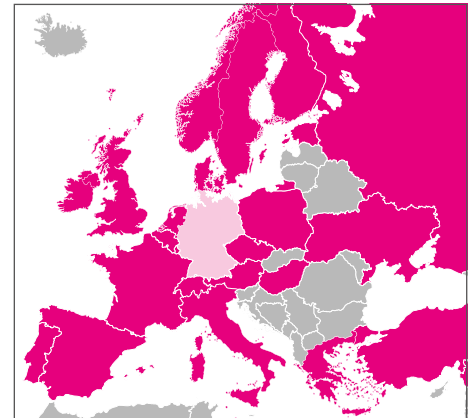
Director of IT and Finance Projects, Magna IT
Magna Automotive Holding AG
ENX User since 2002



Coverage Map



■ T-Systems ENX over Dedicated or Shared Lines ■ T-Systems ENX over Dedicated or Shared Lines and ENX over Internet



Specifications

Access **Dedicated:** ENX is available over SDH, Ethernet and ATM-based SDSL Local Loop („FixedConnect“) and T-DSL ADSL and SDSL accesses provided by Telekom Deutschland („OfficeConnect“)

Options **Shared:** ENX is available over SDH, Ethernet and ATM-based SDSL Local Loop shared with an existing or new IntraSelect access („MultiVPN“).¹

ENX over Internet: ENX is available over any existing or new (e.g. T-DSL Business Service) Internet Connection („OfficeConnect Internet“).¹

Bandwidth **Dedicated/Shared SDH, Ethernet Local Loop:** up to 100 Mbps^{1,2}

Options **Dedicated/Shared ATM-based DSL Access, SDSL Local Loop:** up to 2 Mbps^{1,2}

Dedicated T-DSL: SDSL up to 2 Mbps, ADSL up to 16/1 Mbps¹

ENX over Internet: 512 kbps, 1 Mbps, 2 Mbps^{1,3}

Service **Platinum:** 7 x 24h Service Desk, Support Time 7 x 24h, time to repair 4h,

Options Service availability 99.99% per month⁴

Gold: 7 x 24h Service Desk, Support Time 7 x 24h, time to repair 4h, Service availability 99.97% per month⁴

Silver: 7 x 24h Service Desk, Support 7 x 24h, time to repair 8h, Service availability 99.95% per month

Bronze: 7 x 24h Service Desk, Support Time 5 x 9h or 7 x 24h, time to repair 8h, Service availability 99.90% per month⁵

Additional Services **High Availability (HA) Design:** Based on redundant Ethernet local loop accesses and fully-redundant ENX IPSec gateways, a totally transparent stateful failover mechanism allows applications and sessions to continue without any interruption.

QoS: QoS is available on all dedicated and shared FixedConnect and MultiVPN access types

Web conferencing: Web conferencing is offered as an ENX cloud service.

EDI clearing: EDI services are available (T-Systems Business Connect)

Security services: Various services of the T-Systems Security Portfolio (e.g. Managed Firewall)

¹ Availability may vary by country or region. ² Bandwidth can be any fraction of the underlying IntraSelect local loop. ³ Actual usable bandwidth may be less depending on underlying Internet connection. ⁴ Applicable to accesses with High Availability option only. ⁵ For OfficeConnect and OfficeConnect Internet accesses, availability and time to repair may also depend on the underlying T-DSL ADSL and SDSL access or Internet access provided by Telekom Deutschland or other ISP.

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Why use ENX?

ENX is a Managed Security Service for secure and reliable communication, designed to reduce complexity and cost of cross-company data exchange. Every ENX access from any ENX Certified Service Provider offers indispensable features – independent of type, capacity, cost or SLA.

- Hardware-based end-to-end data encryption
- Certificate-based authentication for reliability of partner identification
- Well-defined provider interaction for defined responsibility in end-to-end troubleshooting

Who uses ENX?

ENX is used by more than 1.500 companies in 35 countries, among them all major European automobile manufacturers and suppliers as well as many small- and medium-sized companies from the automotive and related industry sectors.

How to become an ENX user?

1. Register as a member of the ENX community (www.enx.com/registration)
2. Get the best offer from competing providers (www.enx.com/provider)
3. Order your connection and inform your partners

What does ENX cost?

Pricing varies based on location, technology, bandwidth and SLA. Contact our Certified Service Providers to find the best offer.

How do I get help?

ENX Association is the non-profit governance body of ENX. Contact us for any questions you may have.



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