

# ENX Service Provider Datasheet

## KPN International: Your gateway to the ENX

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, KPN International.



KPN International is a fully integrated business unit of KPN – the number one Dutch ICT provider and one of Europe's leading telecommunication service providers. The KPN International portfolio delivers a comprehensive range of high-class data, communication and IP services. Thanks to our intelligent network, bandwidth solutions and future-proof products, we serve over 700 corporate customers, service providers and carriers.

### Your ENX partner with connections to 180 countries

As an ENX Certified Service Provider (ENX CSP) with a dedicated ENX team and local presence in the Netherlands, Germany, the United Kingdom and France, KPN International can be your ideal single access point to the global ENX community. We will quickly implement a secure and reliable ENX connection that fits your operating environment.

We know the automobile sector, including your clients and your automotive parts suppliers. Our network connections span more than 180 countries around the globe, with bandwidths of up to 40 Gbps. We are highly experienced in connecting businesses like yours to the ENX service.

### Secure, reliable and flexible connectivity via MPLS

Users of KPN International MPLS services can simply add a secure and highly reliable ENX connection to their existing communications platform. Our MPLS-based ENX service delivers the full range of redundancy, resilience and self-healing features for industry-leading service level agreements.

To protect your data, all IPSec routers used by you and your partners will be authenticated via ENX digital certificates issued by the ENX-selected Certification Authority (ENX CA). As an extra level of protection, KPN International operates a separate ENX VPN within our MPLS network. This service ensures that all your ENX traffic is securely isolated from non-ENX sites.

### Cost-efficient Internet-based access

For non-MPLS clients, KPN International also provides a full Internet-based solution with cost-efficient, secure and reliable connections to all ENX users. Because our ENX solutions can operate over existing MPLS or internet connections, KPN International can easily connect all your business locations to the ENX network. Our technology also allows us to map non-registered and private IP addresses.

### Benefit from the Dutch Touch Worldwide

The KPN International ENX connection will be your ideal communications gateway for direct access to all car manufacturers and suppliers connected to this industry-standard network.

True to KPN International's core values of the Dutch Touch Worldwide – Reliability, Flexibility, Creativity and Empathy – you can count on flawless performance combined with the Dutch flair for excellent service and exceptional value.

For more info, visit [www.kpn.com/international](http://www.kpn.com/international)



### Automotive Competence

As an ENX Certified Service Provider, KPN International boosts automotive productivity, by delivering end-to-end connectivity in 180 countries and managing full ENX connectivity both on the KPN International MPLS network and via the KPN International ENX over Internet solution.

Securely transfer engineering data and cut administration costs by replacing all your proprietary communication services with an ENX communication solution from KPN International.

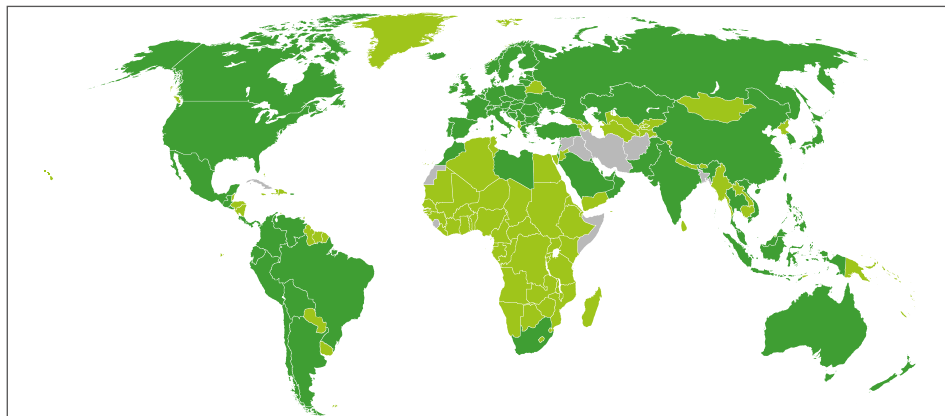
*"KPN International has long-term, extensive experience with ENX. This enables us to ensure short lead times and fast service implementation. One of our goals is to turn innovation into customer benefits in order to satisfy your needs."*



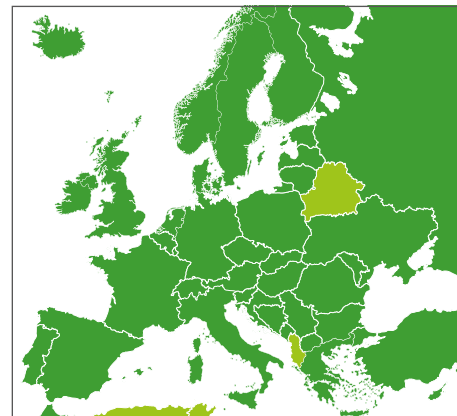
Arie Vrolijk,  
Vice President Sales  
KPN International



## Coverage Map



■ KPN ENX over Dedicated or Shared Lines or ENX over Internet ■ KPN ENX over Internet



## Specifications

**Access Options** **Dedicated:** ENX is available as a service in addition to all of our dedicated MPLS access technologies.  
**Shared:** Existing KPN International MPLS lines can have part of their bandwidth dedicated to the ENX service. A separate ENX termination router is required.  
**ENX over Internet:** Any kind of Internet connection can be used. Customer-owned Internet access is also supported.<sup>1</sup>

**Bandwidth Options** **Dedicated:** 128 kbps through 100 Mbps<sup>2</sup>  
**Shared:** Any fraction of the total bandwidth of the underlying shared link  
**ENX over Internet:** 512 kbps, 1 Mbps, 2 Mbps, 4 Mbps, 6 Mbps<sup>3</sup>

**Service Options** **Basic:** 5 x 8 h help desk for CPE equipment support, initial response time of 4 h<sup>4</sup>  
**Standard:** 5 x 8 h help desk, initial response time of 4 h  
**Standard Plus:** 5 x 12 h help desk, initial response time of 2 h  
**Premium:** 7 x 24 h help desk, initial response time of 2 h

**Additional Options** **Other services:** KPN International provides a wide range of services, including WAN optimization, housing, hosting, disaster recovery, global backup, reporting, video conferencing and SIP trunking. Please contact your local KPN International ENX contact for more information.

<sup>1</sup> Routers with back-up (as stand-alone ENX connection) Internet connectivity over UMTS using a customer-provided SIM card are available. <sup>2</sup> Higher bandwidths for ENX upon request. <sup>3</sup> Note that the actual bandwidth of the Internet connection can be higher than the ENX over Internet speed. Both dedicated and customer-owned Internet access are possible. <sup>4</sup> Performance of ENX connection with customer-owned internet is best effort. For redundancy, a cold spare can be provided.

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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](http://www.enx.com/registration))
2. Get the best offer from competing providers ([www.enx.com/provider](http://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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