

IP eXchange – IPX.

Services International Carrier Sales & Solutions (ICSS)

Life is for sharing.



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IP interconnection is key in a converged world.

Major global trends are driving the need for the seamless convergence of networks: the industry as a whole is moving toward all-IP and NGNs, while value is shifting from transport to content and applications. Wholesale solutions for IP interconnection therefore have to respond to the extended value chain and increasing need for new multiplayer business models across various businesses and networks.

Your subscribers want to use “quality” applications independent of location, access or device technology.

At the same time, your private subscribers or corporate customers want to use an increasing range of high-quality multimedia-based applications independent of location, access and device technology. This is why you - whether you are a fixed or mobile operator or a content provider - expect a single, converged interconnect capability for all your different interoperability requirements from your wholesale provider.

Profit from ICSS's premium-quality solution: IPX.

With its new IPX service, ICSS offers you a premium-quality solution that promises reliable delivery of traffic while offering the flexibility to apply an appropriate level of quality as demanded by the applications for each different class of service.

New flexibility: internetworking with each provider using a single platform.

The goal of our IPX solution is to allow every provider in the IP world - from mobile network operators (MNOs) and fixed network operators (FNOs) to content and media providers - to internetwork with each other via one platform, one contract and one supplier: ICSS.

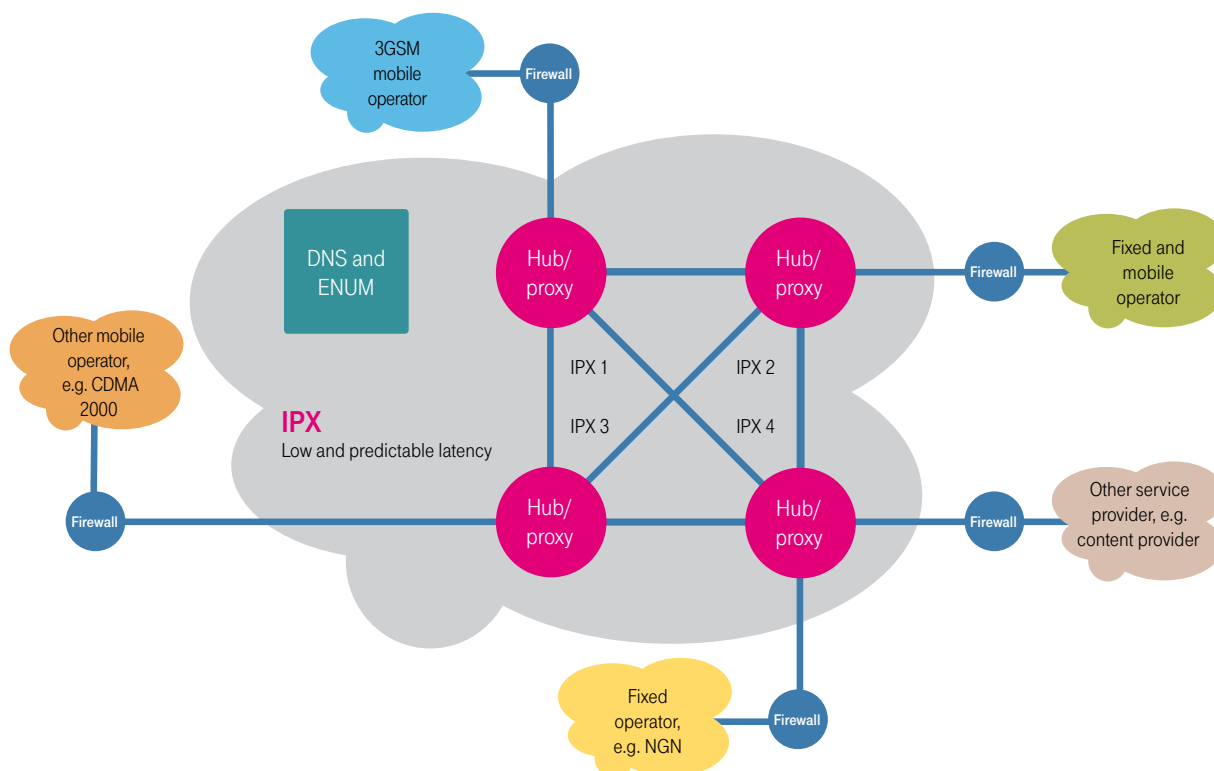
Create a reliable and secure global network.

ICSS's IPX provides you with all the flexibility, reach, and efficiency of the public Internet combined with the quality, transparency, and security of a dedicated interconnection. Profit from ICSS's IPX and create a global network that is able to support IMS sessions and guaranteed QoS for all type of services and applications on an end-to-end basis. Based on GSMA specifications, ICSS's IPX is the concrete answer to your and your subscriber's requirements for ease of use, global access, high quality, reliability of services, secure international data transmission, and compatibility to the existing GRX world.

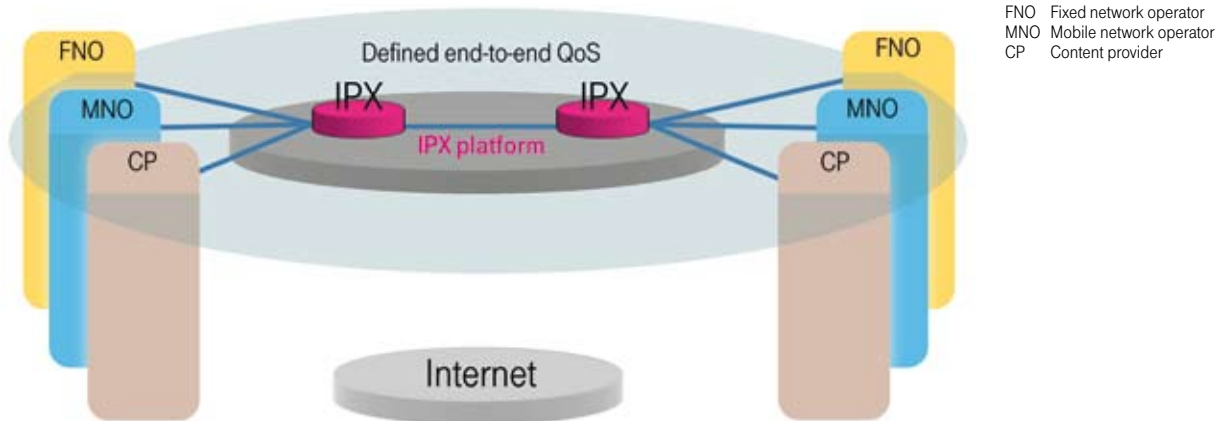
The core principles of IPX.

The core principles of the IPX solution are therefore openness to every operator, service internetworking across all networks and freedom to choose an Internet or private IP commercial model for any service. In addition, the ability to use cascading payments means identification of added value/data and value cascaded through the value chain and thus commercial obligations passed on through the value chain. It offers efficiency through one connection and one agreement, ubiquitous service connectivity via one access and quality through defined end-to-end SLAs with guaranteed and appropriate QoS assigned to each application, accountability and security.

Seamless service internetworking across all networks



Guaranteed end-to-end QoS for all services



ICSS's IPX performance.

- Based on GSMA standards and SLA specifications
- Completely managed connection, including CPE (customer premise equipment)
- High flexibility and scalability on a fixed network access – available capacity up to 2.5 Gbps
- IPsec-based access solution - available capacity up to 30 Mbps
- MMX service
- GRX support and seamless migration to IPX

Your operator benefits.

- The solution promises to support more lucrative commercial models than are possible with the use of the public Internet
- IPX allows you - the operator or service provider - to make more out of delivering services with high security and agreed levels of quality and supports classes of service for a set of defined applications, including packet voice, SIP/IMS services and IPv6 translation
- Services that require high QoS are prioritized over less demanding services and the SLA will apply seamlessly over two IPX networks
- Profit from ICSS's existing customer base and gain access to the widest number of roaming subscribers
- As an ICSS customer (service provider) you can dynamically use the access bandwidth among roaming relations without reordering

Your subscribers' benefits.

- Your roaming consumers will gain access to a broad portfolio of new, exciting digital content and have peace of mind knowing that a secure, reliable environment supports their purchases over their mobile phones
- Your customers abroad gain confidence that, if they pay more for services like mobile data and IPTV, they can have them delivered with higher QoS than can be achieved over the public Internet and without the risks
- End-to-end QoS enables consistent, predictable service delivery to end customers
- Since they are charged by the "home" operator, your consumers abroad prefer using their existing charging relationships if they feel that the service is as reliable as at home

About Deutsche Telekom ICSS.

ICSS, the international wholesale arm of Deutsche Telekom Group, is one of the biggest voice carriers worldwide and an increasingly important IP player across a growing European market with excellent interregional connections between Europe, the Americas and Asia.

With continuously changing markets, ICSS has redesigned its portfolio from traditional voice and transport services to advanced innovative wholesale services and customized IP solutions. The business activities and efforts of ICSS focus on serving the following market segments: broadband operators (ISPs, WISPs, and VoIP SPs), mobile operators and MVNOs, content, application and media providers, corporate service providers and VNOs, fixed voice carriers, and carriers' carriers and their customers through a worldwide sales network. The basis for the delivery of the services of ICSS is an expanding ultra-modern infrastructure - Deutsche Telekom's international network.

For further information, see

www.deutschetelekom.com/icss

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