

Application Brief

When migrating their network from SNA to full IP, some companies face problems related to the lack of router support for some important NPSI functions.

VIRTEL ✓
enables the
elimination of
37XX/NCP/NPSI
systems to permit a
full migration to IP

A pragmatic approach

Syspertec offers several solutions to replace 37XX/NCP/NPSI systems with **VIRTEL™**-based services. The most widespread of these –described in this document- is based on CISCO™ routers using the XOT protocol.

VIRTEL X25-to-IP stands out through the combination of the following characteristics:

- no modification to your applications
- no middleware required
- dynamic management of the communications lines
- full network security and dynamic backup

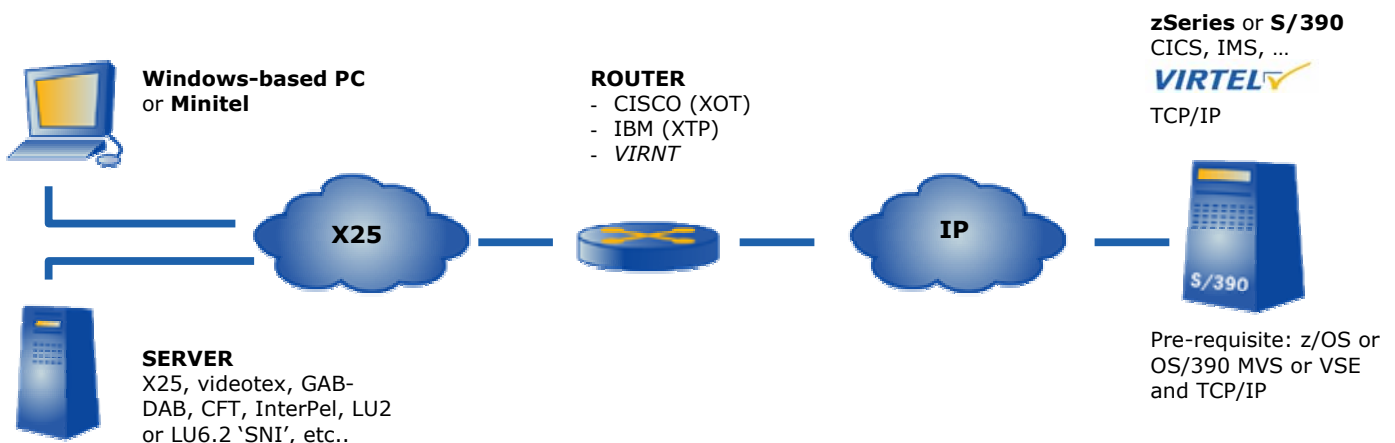
VIRTEL has been in operation since 1988 in mission-critical applications across over 300 reference sites. Its robustness is proven in very demanding environments such as banking: in France, **VIRTEL** powers daily over a million credit card, ATM or similar transactions.

Benefits

VIRTEL X25-to-IP is a **simple and immediate** solution that allows your company to save substantial **time and money** in the migration from SNA to IP.

In addition, **VIRTEL** brings to you:

- Assembler-level **performance** (**VIRTEL** is 100% OS/390 assembler)
- High **throughput** through real-time protocol conversions in a bottleneck-free, two-tier network architecture (no middleware required).
- Dynamic line management and **backup** in case of router breakdown.
- Complete **security** for communications and application access.



Affected applications:

• **VIRTEL applications**

- LLC4 or LLC5 mode: incoming and outgoing Videotex, CICS-based management of ATM systems (GAB-DAB, RCB, CB2A, etc.), audiotel, medical insurance smartcard, Banque de France connections, etc.

- Inter-partner SNI connections using LU2 or LU6.2

• **Other applications using NPSI Fast connect, GATE or PCNE mode**

- LLC5, LLC4 or LLC0 mode: file transfer applications (CFT, InterPel. etc.)

Technical Details

- Dynamic line management: online screens allow dynamic definition of XOT, XTP and **VIRPASS** line attributes

- Supervision of CVC/LU's: either online or via the console, log files, or statistics files

- Security: **VIRTEL** interfaces with RACF, TSS and ACF2 and allows the dynamic management of filter rules (by X25 address or by subnet mask)

- Support of MVS file transfer software: an NPSI GATE and PCNE mode emulation function allows **VIRTEL** to support file transfer programs completely transparently

- Support of VIPA (Virtual IP Addressing): automatic rerouting of network traffic to another connection with the same virtual IP address following a break in communications. This IBM technology provides high availability of TCP/IP services in a Parallel Sysplex environment

- Dynamic management of X25 network service facilities

- Replacement of SNI links: **VIRTEL** offers various solutions for connecting LU2 or LU6.2 with partners on IP or X25 networks