

Fact sheet on switching modem applications to IP

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Many applications still communicate using voice modems through a traditional landline network similar to a telephone. There are less expensive and more efficient options via IP or mobile networks, and switching to the newer technology is often a sensible idea.

Conversion from landline telephony at the end of 2017

With All IP, Swisscom is providing the technical basis for the digitisation of Switzerland as a business location; it is investing around CHF 1.7 billion every year into the expansion and modernisation of its network. All IP gives the customer greater flexibility, ease of use and efficiency – irrespective of location and devices. Swisscom is planning to transfer all services currently provided via traditional landline-based technology over to future-oriented Internet Protocol (IP) technology by the end of 2017. Support for the traditional technology is guaranteed until then. The old telephony infrastructure will be gradually decommissioned from 2018. Customers who have not yet switched to an IP product by then will be helped to do so by Swisscom. Swisscom recommends that its customers with special applications that communicate using traditional landline-based telephony approach this topic immediately and start making the necessary adjustments now. These modem applications include, for example, franking machines, remote monitoring, remote controls, house technology, electricity meters and much more..

IP potential in future

Technological advancements never stand still. That is why the switch to IP telephony is an important driver for new innovations. When using a mobile network, the bandwidth alone is significantly greater than when using a modem with the traditional landline network. The switch will allow a number of these applications to be transferred to simple, wireless data communication, which will bring with it a great deal of added value.

Which applications are affected?

The only applications affected by the switch are those that currently use traditional landline-based data transfer (analogue or ISDN). There are a number of systems that are not affected because they only use mobile networks for data transfer, or else they have already been switched over to IP.

Procedures for applications that transmit data via traditional landline networks

If your application uses the traditional landline network to transmit data, you have the following options:

Zweiweg



Zweiweg (duale) Lösungen bieten die grösste Sicherheit, da diese primär über IP und sekundär über das Mobilfunknetz übermitteln. Sie gilt als die sicherste Übermittlungsart und ist sicherer als die herkömmliche Übermittlung nur über das Festnetz. Bei kritischen Anwendungen ist diese Übermittlungsart zu bevorzugen.

Mobilfunk



Für die meisten Anwendungen wird eine Verbindung mit dem 3G/4G Netz die beste Alternative sein. Diese Verbindungen sind heute günstig und verlässlich. Drahtlose Kommunikation bietet oft auch tiefere Installationskosten.

Festnetz



IP

Eine reine IP-Verbindung kann dort von Vorteil sein, wo diese einfach ins LAN integriert werden kann, die Anwendung kann einfacher im Netzwerk mit anderen Maschinen kommunizieren oder direkt überwacht werden.

VoIP

Das bestehende Modem wird häufig auch an der analogen Schnittstelle des Routers einwandfrei funktionieren. Vor allem bei unkritischer Übermittlung kann dies eine zweckmässige Lösung sein. Testen Sie die Verbindung regelmässig.

Emergency power supply for the system and transmission

If you would also like to ensure transmission even in the event of a power outage, we recommend a two-way solution, whereby a combination of landline and mobile network creates a real redundancy. Swisscom is unable to provide any guarantee regarding the network-side independent power supply (Swisscom landline). An emergency power supply for the router is useful during local power cuts where the Swisscom landline is not affected.

What should the owner of an application with modem transmission do?

Owners of these kinds of applications should deal with the topic of operating their systems over IP today. We generally recommend that they switch their application before the telephony network is switched. This will allow them to decouple the two projects and make the future transition to telephony over IP simpler. Contact your supplier; they will be able to advise you further.

Further information

You will find continually updated information on www.swisscom.ch/ip.