



Accelerate your business with SIP telephony

Your benefits at a glance

- Investment protection thanks to interoperability not only for voice communication, but even for comfort and business functions
- Sustainable competitiveness, as the progress in SIP standard can also quickly find its way into the products
- High individualization and deep integration possibilities
- Very fast implementation of bug and security patches

SIP - The open standard for Voice over IP

With VoIP Internet telephony, the Session Initiation Protocol (SIP) has established itself as the transmission standard. SIP is a text-based client-server protocol that is used to control the establishment and termination of connections.

However, the standard is not only designed for VoIP, it can also be used for video conferences, instant messaging, computer games and other applications.

The addressing scheme is very similar to that of an e-mail (e.g. sip:johnmiller@provider-name.com). Both point-to-point and point-to-multipoint connections are supported. All Auerswald communication platforms are SIP compliant.

Terminals such as telephones, softphones, gateways etc. are called user agents (UA). The initiator of a call works as a user agent server, the called party as a user agent client. A user agent logs on to a registrar (e.g. the VoIP communication platform) with an identifier (user name and password) and his SIP URI (SIP address) and thereby announces his IP address.

Based on this registration, a user agent can be localized. A SIP proxy takes on the role of an intermediary who processes or forwards the signaling messages. The actual transmission of the voice then takes place in individual IP data packets via the Internet, in the case of VoIP usually via RTP (Real Transport Protocol according to RFC 3550).

Advantages of the SIP standard

The SIP standard offers enormous advantages to manufacturers, system integrators and end customers.

By opening VoIP communication platforms for 3rd party terminals, end customers can protect their existing investments such as SIP phones. There can be many reasons for switching from a cloud PBX or other appliance to an onsite VoIP communication platform. In the end, however, the investment already made in the terminals often stands in the way of the change.

Auerswald offers these customers a solution because SIP phones from Snom, Yealink and Polycorn can not only be provisioned automatically on the current VoIP communication platforms of the COMpact and COMmender series, but also the most important system functions such as day/night switching, call forwarding and the busy lamp field (BLF) are available.

However, not only the VoIP communication platforms of Auerswald are open for 3rd party terminals with SIP standard. The same applies to terminal equipment from Auerswald.

With the COMfortel D series, a conscious decision was made against the implementation of a proprietary system telephone protocol in order to give the customer a free choice of communication platform. This ensures investment protection for IP telephones as well as maximum interoperability.

IP telephones of the COMfortel D series should not only achieve the best possible integration depth on Auerswald VoIP communication platforms, but also on VoIP appliances of other manufacturers or providers. Therefore, the use of open standards, such as SIP, is the ideal solution for both customers and manufacturers to achieve their goals.