VoIP gateway for up to
4 ISDN BRI interfaces

TELES.*VoIPBOX*

- ■ **ISDN BRI-VoIP gateway**

- ■ **Toll-grade voice compression and T.38 fax support**

- ■ **Integrated SIP server for remote survivability and emergency break out**

- ■ **Best-in-class least-cost-routing capabilities**

- ■ **QoS and traffic shaping support**

- ■ **Supports auto provisioning and centralized system management**

- ■ **Lifeline support on power loss**

TELE5
Communication Systems

TELES.*VoIPBOX*

TELES.VoIPBOX is a full-featured, high-quality VoIP gateway that connects to your customer's telecom environment without interfering with any existing telecom equipment. *TELES.VoIPBOX* is ideal for small and medium-sized companies wanting to transition to alternative, cost-effective telecom infrastructures. *TELES.VoIPBOX* can be configured with 1 or 2 BRIs as Terminal Endpoint (TE) and up to 4 BRIs as Network Termination (NT). That means a single device can provide 8 VoIP channels.

By running VoIP and ISDN in parallel, your customer's contact information remains unchanged. Your customer will also benefit from our TELES IntraSTAR® technology, which provides transparent fallback to PSTN in case of bottlenecks or packet loss. *TELES.VoIPBOX* automatically routes traffic back to VoIP once the Quality of Service (QoS) is back to normal.

With *TELES.VoIPBOX*, your customer can rely on the integrated LCR engine to automatically select the cheapest route to the destination number no matter if over IP or over the public PSTN network. The box provides all information for full cost control, which is accessible for further processing.
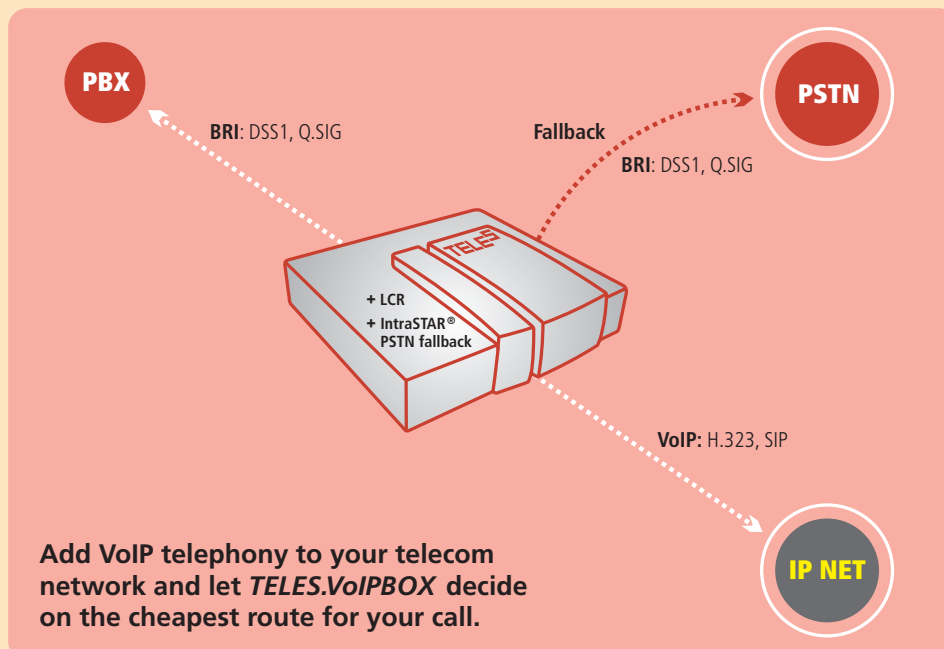
Configuration possibilities for the *TELES.VoIPBOX* are virtually unlimited. After your customer has entered the few essential parameters, our *TELES.GATE Manager* tool facilitates on-site access and configuration of the box and routing file. For larger installations and fully automatic remote-provisioning, *TELES.NMS* is the answer. The versatility of the routing-file configuration allows you to propose routes that benefit your own business.

TELES.VoIPBOX guarantees excellent voice quality: Echo cancellation, silence suppression and comfort noise generation are part of the basic feature set of each device. Also included are various voice codecs that allow effective speech compression and reduce the necessary bandwidth. Our RTP multiplexing technology, which can be activated if TELES hardware is implemented on both ends of the IP connection, can further reduce bandwidth consumption.

TELES.VoIPBOX supports signaling protocols H.323 and SIP, configurable on a per VoIP-destination basis. Connections to multiple gatekeepers and multiple registrars for authentication, network surveillance, and billing purposes are also supported.

Attract new customers by offering a risk-free, incremental transition to Internet telephony with *TELES.VoIPBOX*. In addition, save expensive interconnection fees by connecting your telephony customers directly to your IP network.
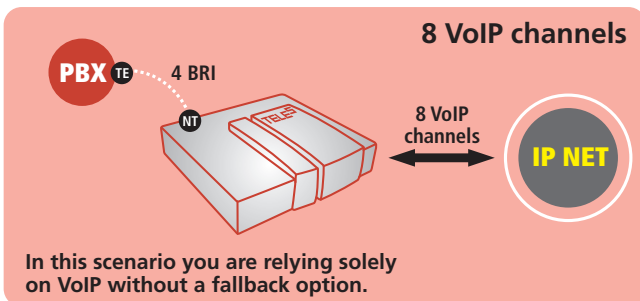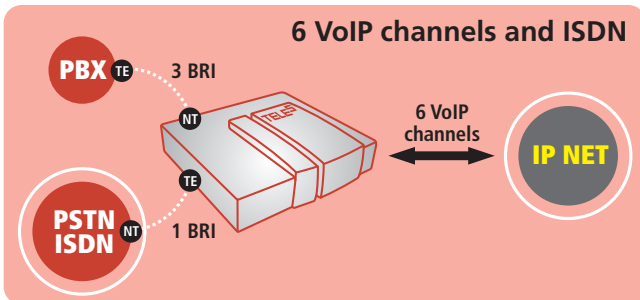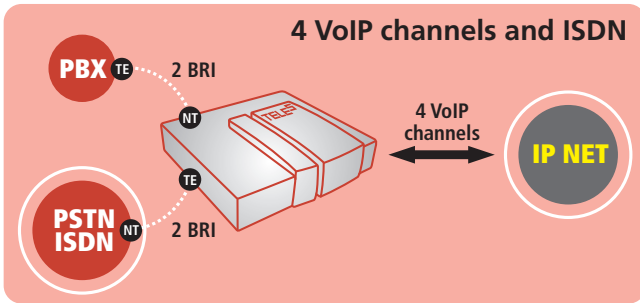
There is no simpler alternative for a risk-free, incremental transition to Internet telephony!

PBX

BRI: DSS1, Q.SIG

Fallback

PSTN

BRI: DSS1, Q.SIG

+ LCR
+ IntraSTAR®
PSTN fallback

VoIP: H.323, SIP

IP NET

Add VoIP telephony to your telecom network and let *TELES.VoIPBOX* decide on the cheapest route for your call.
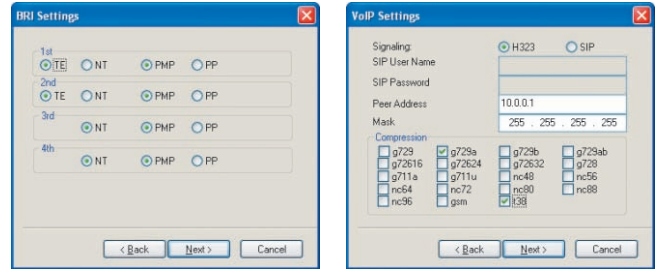
TELES.VoIPBOX seamlessly integrates into your current telecom infrastructure.

There is no need to invest in a new PBX or buy expensive port extensions. Just install it between your PBX and the PSTN and connect it to the Internet.
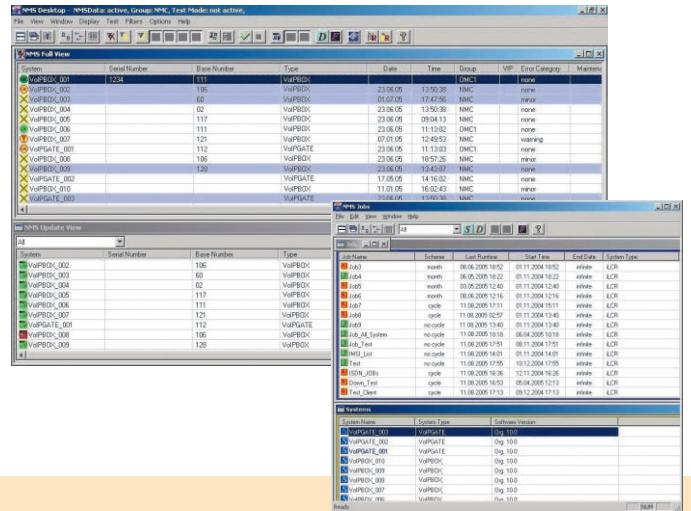
Experience a smooth transition to VoIP: you decide on your VoIP capacity!

4 VoIP channels and ISDN

PBX TE — 2 BRI
NT
TE
PSTN ISDN NT — 2 BRI
4 VoIP channels
IP NET

6 VoIP channels and ISDN

PBX TE — 3 BRI
NT
TE
PSTN ISDN NT — 1 BRI
6 VoIP channels
IP NET

8 VoIP channels

PBX TE — 4 BRI
NT
8 VoIP channels
IP NET

In this scenario you are relying solely on VoIP without a fallback option.
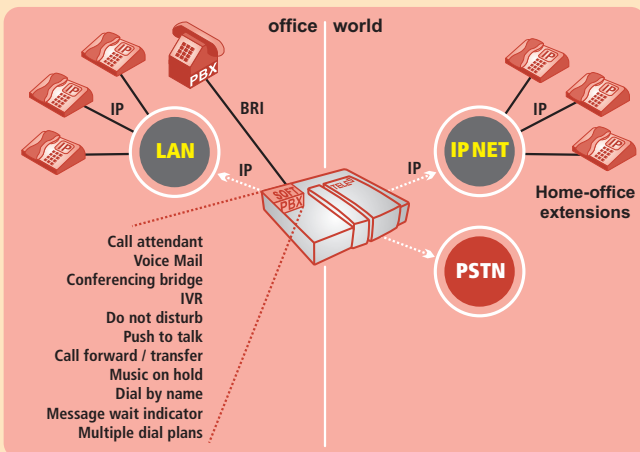
Quickstart setup: convenient and easy to use

Remote-provisioning simplifies bulk installations: *TELES.VoIPBOX* can receive up-to-date routing files automatically from *TELES.NMS*

TELES.iPBX SoftPBX for *TELES.VoIPBOX:* Adds additional IP extensions and enables a host of advanced PBX services.

office world

IP
BRI
IP
IP
LAN
IP NET
PSTN

Home-office extensions

Call attendant
Voice Mail
Conferencing bridge
IVR
Do not disturb
Push to talk
Call forward / transfer
Music on hold
Dial by name
Message wait indicator
Multiple dial plans

- ■ Simple, out-of-the-box installation: You do not need to reconfigure your existing PBX

- ■ The solution that grows with your needs: Use boxes in parallel to increase the number of VoIP channels

- ■ Software update capabilities assure safe investment and facilitate integration of new features and protocols

- ■ Built-in, TELES IntraStar® technology enables fallback to PSTN in case of loss of QoS in the IP network

- ■ Advanced compression algorithms and comfort noise generation ensure superior VoIP quality

Technical Specifications

TELES.GATE Manager is a Windows-based PC application, which can access any *TELES.VoIPBOX* via ISDN or IP.

In addition to configuration and routing file management, *TELES.GATE Manager* provides status, statistics and cost information on systems, routes, and usage.

Debugging tools such as a D-channel and IP signaling monitor and error analysis tools are also integrated.

An HTML interface for configuration and maintenance is also available.

ISDN
- 2 & 4 BRI ports, TE or NT
- DSS1 (Q.931),Q.SIG-BC; PP or PMP

VoIP
- 8 VoIP channels
- H.323(v4) or SIP, operating in parallel
- Codecs G.711,G.723, G.726, G.728, G.729, GSM, iLBC, Fax T.38
- RTP multiplexing (reduces bandwidth required for RTP data by up to 60%)
- ENUM client
- Echo cancellation G.168–2000
- Silence suppression, comfort noise generation
- Support for multiple gatekeepers
- Support for multiple registrars
- STUN client
- Traffic shaping
- SIP registrar / location server

LCR engine for ISDN and VoIP
- Multiple VoIP-carrier logins
- Multiple ISDN routing methods
- Multilevel alternative routing
- Dynamic fallback to ISDN
- Lifeline functionality on power loss or system failure

General
- Ringtone generation
- Configurable ToS
- AOC generation
- Integrated DSL router
- PPPoE over DSL
- 2nd separate 10/100 Base-T Ethernet interface
- Status indication via LEDs

TELE5
Communication Systems

CE · TÜV · ISO 9001

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