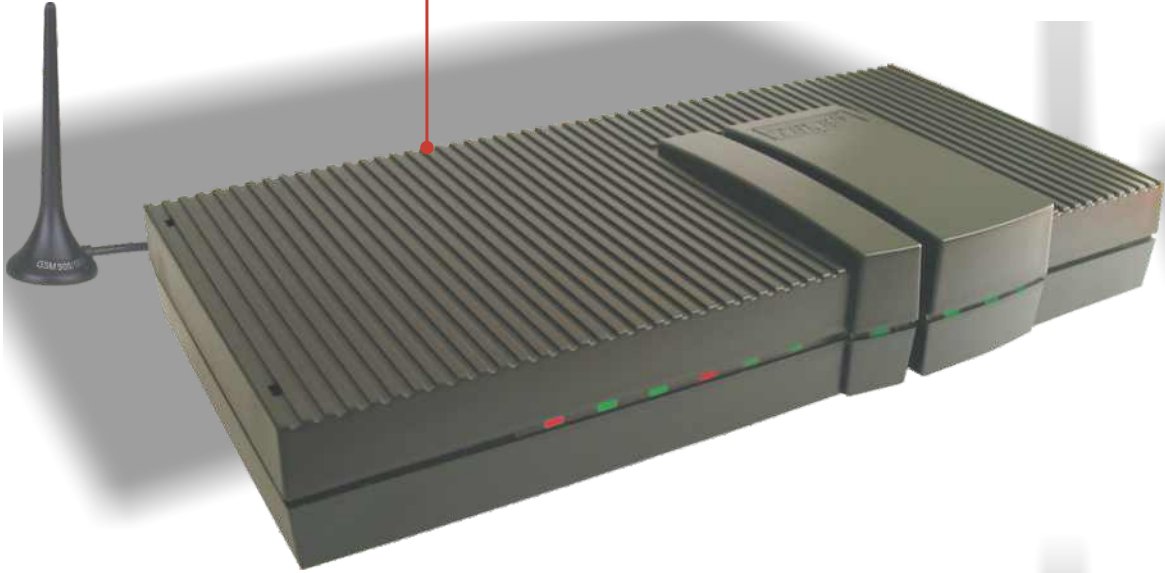




*Converts fixed-to-mobile into
mobile-to-mobile*



TELES.iGATE^{FCT}

- Integrated gateway for GSM or CDMA
- Integrated VoIP gateway
- Analog support (4 FXS)
- Built-in SIM-card server support
- Integrated IP router via GPRS or CDMA
- LCR engine for best rate from wireless and VoIP
- Easy installation & remote management

TELES.iGATE^{FCT}

TELES.iGATE FCT is a combined mobile and VoIP gateway solution for carrier networks and for corporate customers wanting to connect their PBX to mobile and VoIP services. This full-featured gateway can be added to analog and IP environments in a cost-effective and convenient manner. *TELES.iGATE FCT* converts fixed-to-mobile into mobile-to-mobile calls, thereby terminating calls to mobile networks at lower rates than possible via fixed-net interconnection.

TELES.iGATE FCT is the ideal mediator for carriers who want to give corporate customers access to their mobile and VoIP networks. It enables mobile network operators to add fixed-net minutes to their current revenues, thereby reaching out to a completely new customer base.

TELES.iGATE FCT provides extremely flexible least cost routing combined with other superior call-routing and rerouting capabilities. Routing strategies are based on various criteria, such as called party, CLIP/CLIR, time-of-day, time quota, service quality, and SIM-card profile.

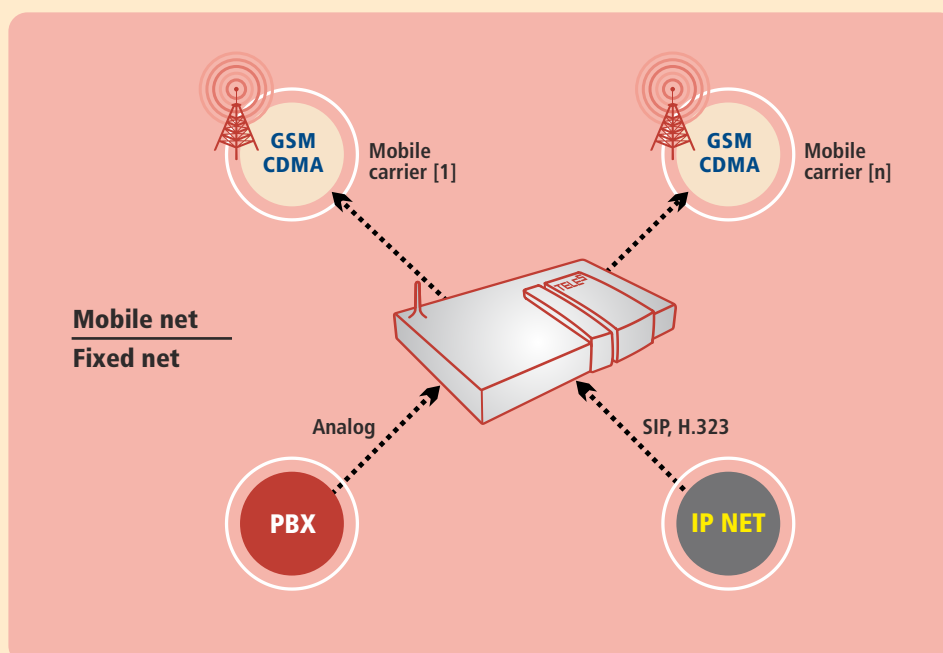
On top of the basic call scenarios, *TELES.iGATE FCT* provides a wide range of special inter-networking applications, such as e-mail-to-SMS conversion, call-back functionality, two-stage dialing, and more.

TELES.iGATE FCT comes with common VoIP signaling protocols like H.323 and SIP, making it very compatible with a wide range of VoIP network components. For VoIP telephony, silence suppression, echo cancellation and comfort noise generation guarantee excellent quality.

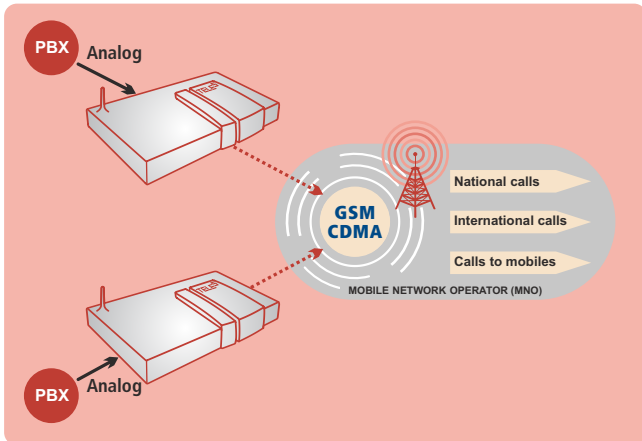
Various voice codecs allow effective speech compression to reduce the necessary bandwidth. Our RTP multiplexing technology, which can be activated if *TELES* hardware is implemented on both ends of the IP connection, can further reduce bandwidth consumption. Intelligent traffic management ensures that highly profitable trunks provide optimal capacity utilization.

TELES.iGATE FCT can be configured and controlled over a user-friendly interface from a local or remote PC, which reduces costs for maintenance and training. For larger networks, the *TELES.vGATE* SIM-card server is a centralized SIM-card storage system that can be remotely administered, assuring that no SIM cards are at unattended sites.

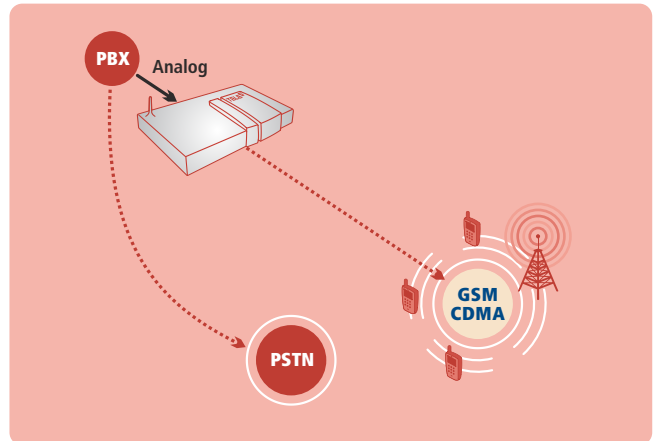
TELES.iGATE FCT is connected to the mobile network and directly to the PBX via FXS lines and/or IP. It includes a VoIP gateway with 8 VoIP channels, 4 mobile channels, and 4 FXS interfaces. Analog phones, the existing PBX, or a SoftPBX can be connected. You can set up *TELES.iGATE FCT* for several mobile networks and automatically route your call to the network with the lowest rate.



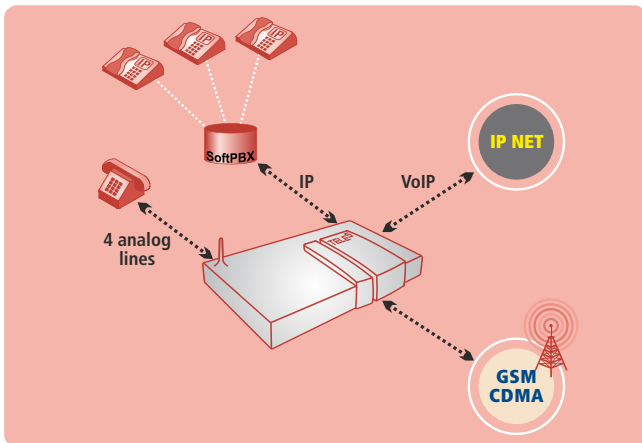
***TELES.iGATE FCT* converts fixed-to-mobile into mobile-to-mobile calls, thereby terminating calls to mobile networks at lower rates than possible via fixed-net interconnection.**



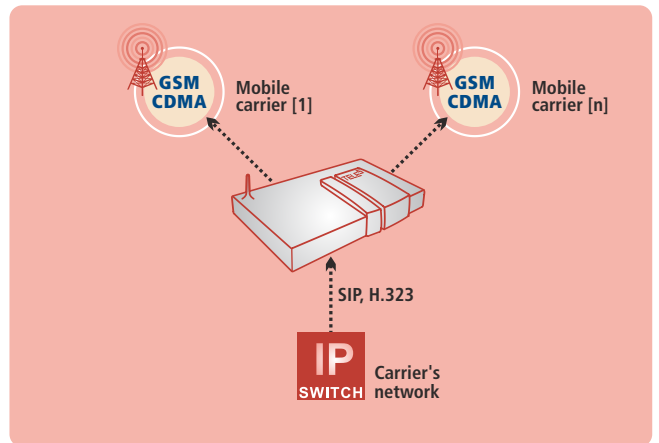
TELES.iGATE FCT for collecting mobile traffic at point of origination



TELES.iGATE FCT for mobile-call termination

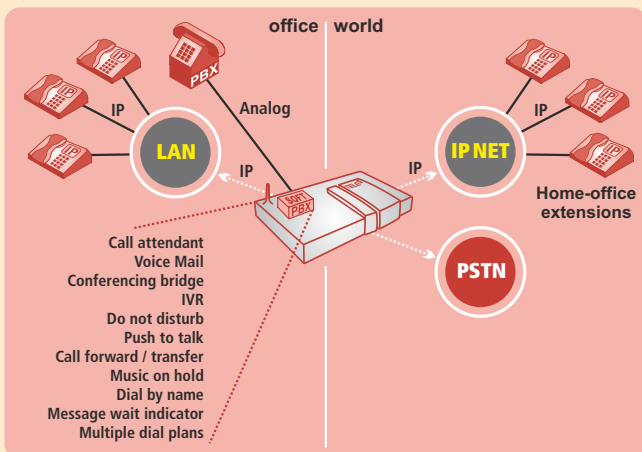


TELES.iGATE FCT as gateway for GSM, analog and compressed VoIP for SoftPBXs



TELES.iGATE FCT application scenario for carrier networks.

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



- Converts fixed-to-mobile calls into cheaper mobile-to-mobile calls
- SMS to e-mail (and vice versa)
- Call-back Server functionality
- Fixed-network backup via mobile
- Last-mile connection via mobile
- Quick basic telephony provisioning
- Centralized SIM-card management
- Integrated IP router

Technical Specifications

- 4 GSM or CDMA channels
- 4 analog lines (FXS)
- 8 VoIP channels
- 1 SIM card or R-UIM per channel
- 1 antenna
- Built-in SIM-card server support for unlimited SIMs per channel with TELES.vGATE SIM-card server
- Fully digital voice path
- Individual timers for each SIM / each call
- CDR generation (online & offline)
- Number portability support
- Powerful LCR
- Integrated remote test-call functions (no local handset required)
- In-band to out-band signaling conversion
- Two Ethernet ports for redundancy or separation of signaling and voice and maintenance
- Integrated IP router

Interfaces and supported protocols

Analog (FXS)

- Fax/Modem detection (UDT)
- Charging impulse (12/16kHz)
- CLIP
- Integrated line echo cancellation
- Generates dialtone and ringtone

MOBILE

- GSM: Dual Band (900/1800 or 850/1900 MHz), SMS, GPRS
- CDMA (CDMA 2000): Dual Band (800/1900 MHz), R-UIM, carrier-specific variants

ETHERNET

- 2 x Ethernet 10/100 Base-T

VoIP (optional)

- H.323(v4) or SIP, operating in parallel
- Codecs G.711, G.723, G.726, G.728, G.729, GSM, iLBC, Fax T.38

Special features

- Alert tone detection:
 - ~ Generation of ALERT/CALL PROGRESS (user free)
- Announcement recognition and programmable options:
 - ~ Generation of PROGRESS/CALL PROGRESS, in-band (default)
 - ~ Generation of RELEASE with configurable cause value
 - ~ Generation of CONNECT (when call is accepted)
- Busy-signal recognition:
 - ~ Generation of DISCONNECT/RELEASE

Network management system

- Network management system (TELES.NMS) for a virtually unlimited number of systems
- Automatic network surveillance
- Automation of recurring tasks
- Conditional operator notification (SMS, E-mail)



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Your TELES representative: