

bintec TR200aw/bw bintec RT Series

Media Gateways for convergent
communication solutions—high performance
with multiple certifications



Why Media Gateways?

**Quite simply so that your system remains simple
—even when migrating and converging.**

***Digital communication today:
Worlds growing together.***

In addition to ISDN and analogue telephony, internet services have long been established as an information medium for day-to-day business. What is more, the importance of IP-based communication is growing continually with the performance capability of connections and the number of professional applications. In the business sector in particular, more and more companies are benefiting from professional internet telephony (VoIP), which combines the advantages of known ISDN system telephony with the flexibility and cost-effectiveness of VoIP.

The media gateways of the bintec RT Series and the bintec TR200 Series combine and duplicate their possibilities and permit the smooth migration of traditional telephony to integrated voice/data solutions:

- ▶ Site-independent
- ▶ Sophisticated security mechanisms
- ▶ Guaranteed quality of service (QoS)
- ▶ Simplified administration and maintenance
- ▶ Simplified controlling and evaluation solutions
- ▶ Successive integration of other media (fax, video, etc.)

Funkwerk meets the special technical requirements for the successful use of Voice over IP in corporate networks with its media gateways of the bintec RT Series, which offer high-quality codecs for voice, fax and encryption. The integration of elmeg system telephony know-how ensures professional performance features. Combined with sophisticated traffic management (Quality of Service), internet access is the universal and highly flexible information medium for your corporate communication.

Whether SMEs, head office-branch networks, demanding home office applications or high-performance company head offices: Funkwerk can offer a solution to meet any requirements that will fit your company like a glove.

**The media gateways of the new bintec RT Series:
Get set for the future.**



bintec TR200 and bintec RT Series:

Universal IP access systems for convergent communication at the highest level.

bintec RT Series: Media gateways with comprehensive convergence functions for head offices, call centres and for migration systems for larger LANs in SMEs.

In addition to the basic task of media gateways to transcode various information media, the systems of the bintec RT Series also perform a second essential task, namely routing: the analysis, evaluation and qualified transport of data.

The media gateways of the bintec RT Series offer a whole host of IPsec functions for routing, which are unparalleled on the market: All systems in the bintec RT Series are supplied ex works with a licence for 10 hardware-accelerated IPsec tunnels; up to 100 additional tunnels can also be licensed. The integrated high end encryption engine ensures adequate performance. In addition to pre-shared keys, X.509 certificates are also used. This protects the systems, for example when employees change or if a VPN device is stolen, by means of a single action by a central location. The certificates can be managed conveniently and easily on a RADIUS server. With XAuth (Extended Authentication) and a “one time password” solution such as Kobil SecOVID®, for example, the level of security can be optimised.

Depending on the model, transcoding can be performed using connections for ISDN (BRI and PRI) or analogue telephone connections (FXS). Each voice channel is integrated into the IP system on a separate digital signal processor (DSP) with high-quality codecs thus ensuring a continuously guaranteed processing capacity.

Two or three interfaces can be configured simultaneously as WAN interfaces for load balancing: As a result, there is not only more bandwidth available, but also the data traffic can be spread according to load or data type.

The bintec media gateway is configured over the Funkwerk Configuration Interface (FCI), a web-based graphical user interface. Various wizards simplify the set up considerably. The media gateways can also manage the devices locally and remotely over other configuration accesses such as Telnet, SSH and ISDN login.

In addition to high-quality, durable hardware, Funkwerk also offers a 2-year warranty (which can be extended to 5 years at minimal cost) to ensure stable operation and maximum availability.

bintec TR200: The IP access router with gateway functions—for branch offices, demanding SoHo applications and small companies

As a compact, universal media gateway system, the bintec TR200 offers an integrated all-round solution for SoHos, law firms or smaller branch offices—a new device class that combines internet access, traditional and VoIP telephony, a high performance WLAN access point and sophisticated routing functions with simple setup. bintec TR200—Unified Communication.

The bintec RT Series as a fax gateway: Virtual ISDN over LAN

Virtual ISDN cards for CAPI-based Fax over IP

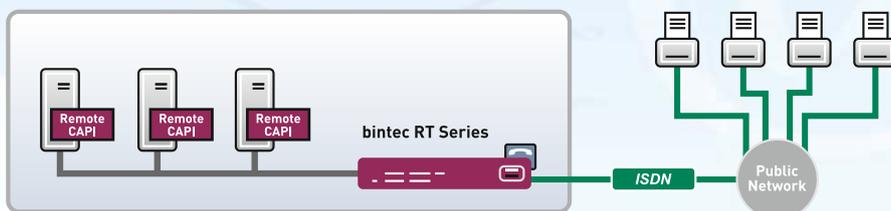
The tried and trusted bintec Remote CAPI as a network application builds the bridge between workstations in the LAN and external ISDN functions. As a result, CAPI 2.0-compliant applications can reach the ISDN ports in the media gateway independent of the hardware used.

The bintec Remote CAPI is multi-server and multi-site capable: Several servers can therefore use the ISDN interfaces of a media gateway jointly and conversely a server can use the ISDN ports of several gateways.

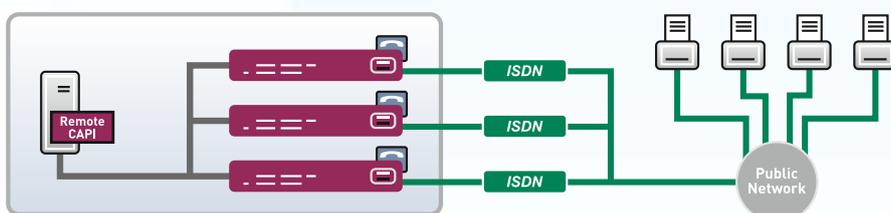
Voice and fax applications can transfer data simultaneously on all available channels. Thanks to the dedicated signal processors (DSP) available for each channel, overloads are avoided across the entire system: routing and transcoding cannot affect each other.

The CAPI applications can be installed and maintained during operation without a reboot, which is a considerable advantage particularly when used in a server. In addition to Linux, the client interface supports all current MS Windows® operating system versions (16 / 32 / 64 Bit) and applications. Funkwerk also supplies the source code for embedded use.

This function is groundbreaking for the use of virtual machines: MS Hyper-V®, MS Virtual PC®, VMware®, virtualBox® and other virtual platforms do not offer an option to connect ISDN cards. The bintec Remote CAPI avoids this problem and thereby allows fax and unified communication servers to be operated on virtual systems.

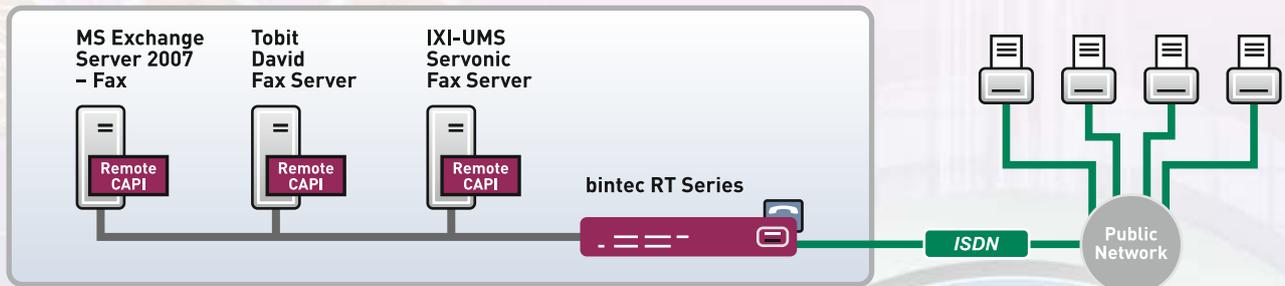


bintec Remote CAPI – Multi-server operation



bintec Remote CAPI – Multi-site operation

Application examples



Fax servers on the bintec Media Gateway:

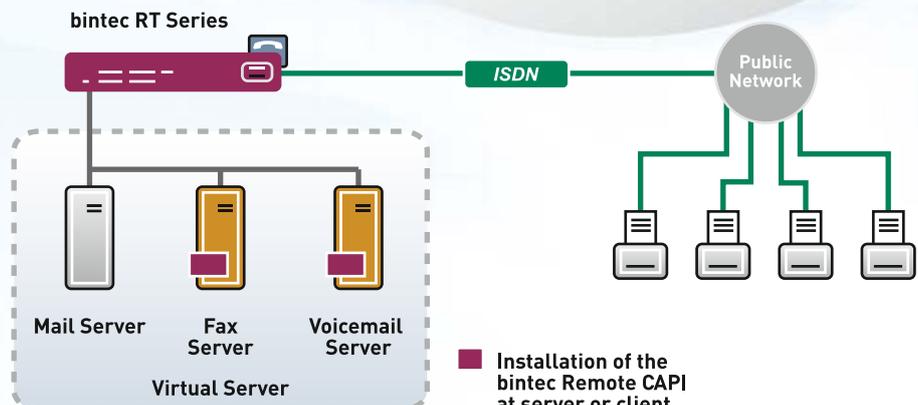
A wide variety of fax servers can be connected, even in parallel, with the ISDN interfaces of the media gateway via the bintec Remote CAPI. The dedicated DSP hardware for each active connection guarantees the same level of high quality with minimal system load.

Fax server certification by:



Remote CAPI and server virtualisation:

Only the bintec Remote CAPI can be installed on virtual servers to connect to the ISDN interfaces of the media gateway.



The bintec RT Series as a VoIP gateway: For modern voice networks

ISDN convenience with VoIP flexibility

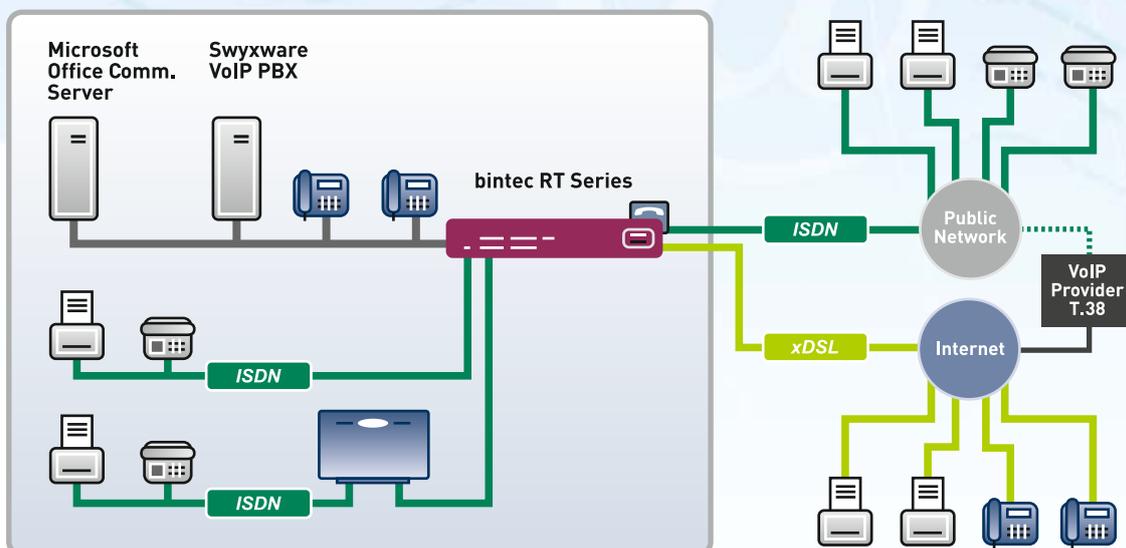
The widespread SIP protocol for high performance VoIP connections is a technical prerequisite for many VoIP gateway solutions. The transition from “traditional” telephony and fax connections to Voice over IP and Fax over IP is supported in all versions on the bintec media gateway.

The media gateway simultaneously transcodes telephone calls and fax transmissions (T.38) between the IP network and the traditional telephone network. Terminals can be registered directly with the VoIP SIP provider or a VoIP PBX thanks to the terminal adapter function. Conversely SIP terminals can also be connected to an ISDN PBX. Both “traditional” ISDN PBX as well as modern IP PBX with ISDN exchange connection (BRI/PRI) are supported.

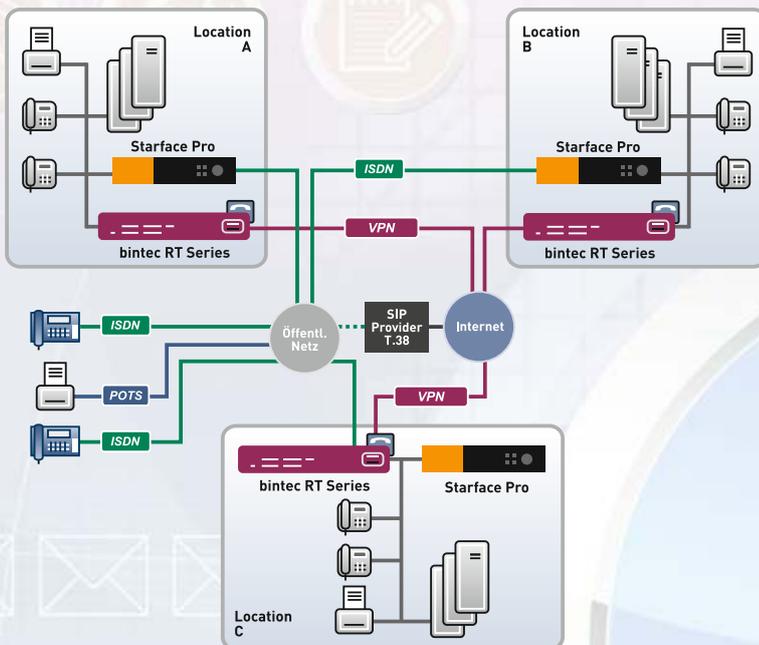
Fax transmission over T.38 is therefore supported in the following two scenarios: A fax device on the analogue connection of the PABX can send and receive faxes over SIP. Conversely, FoIP clients and servers in the LAN can fax over the ISDN exchange. Fax over IP (T.38) and the analogue group 3 fax protocol (T.30) are thus combined.

The voice coding implemented in the bintec media gateway can be adapted to the user’s current quality requirements (flexible use of G.711, G.726 or G.729A) and offers ISDN voice quality combined with high data compression.

The intelligent quality of service algorithms of the bintec media gateway prioritise voice traffic over normal data traffic and thereby constantly ensure sufficient bandwidth for fault-free VoIP connections.



Application examples



Starface system interface with VoVPN®:

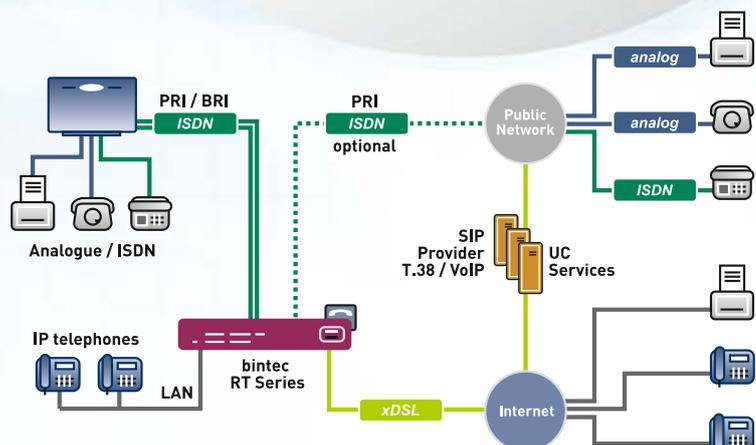
The media gateways of the bintec RT Series allow several Starface VoIP systems to be connected at various localities to a transparent complete system with common functions. VPN or IPsec ensure maximum security. QoS prioritises VoIP data traffic for high voice quality.

VoIP systems certification by:



Universal VoIP gateway connection:

The use of a media gateway of the bintec RT Series allows a traditional ISDN PABX to be individually expanded with any number of internal and external SIP extensions, Voice over IP and Fax over IP are integrated transparently.



The models of the bintec RT Series

The new bintec RT Series offers a practical range of powerful and, thanks to their comprehensive basic equipment, flexible media gateways. The fan-free 19-inch metal housing with internal energy-efficient switched-mode power supply guarantees long-term reliability in critical corporate applications. As a result, the new bintec RT Series is ideal for use as a future-proof media gateway in a wide variety of application environments.

All devices of the new bintec RT Series have five gigabit Ethernet ports (1000BASE-TX), which can be configured for LAN, WAN or DMZ. The media gateway can be operated behind one or more, or even

different, ADSL, SDSL, VDSL or cable modems, or has an integrated DSL modem depending on the model. This enables the VPN gateway to be integrated into the widest range of network topologies.

All models in the new bintec RT Series are supplied ex works with a licence for 10 hardware-accelerated IPSec tunnels. Up to 100 additional IPSec tunnels can also be enabled optionally if licensed.

Detailed product information can be found in the product data sheets at the following address:

<http://www.funkwerk-ec.com/products>



bintec RT1202

- ▶ 2x ISDN interfaces (BRI), freely configurable (NT/TE) for 4 simultaneous B-channels
- ▶ Integrated DSP for 4 channels
- ▶ Fan-free metal housing, internal energy-efficient switched-mode power supply
- ▶ 5 gigabit Ethernet ports, freely configurable
- ▶ Licence for 10 IPSec tunnels, can be extended to up to 110 IPSec tunnels as an option



bintec RT3002

- ▶ Integrated ADSL2+ modem, supports Annex B (ADSL over ISDN) and Annex A (ADSL over POTS) with Annex M extension
- ▶ 4x ISDN interfaces (BRI), freely configurable (NT/TE) for 8 simultaneous B-channels
- ▶ Integrated DSP for 8 channels
- ▶ Fan-free metal housing, internal energy-efficient switched-mode power supply
- ▶ 5 gigabit Ethernet ports, freely configurable
- ▶ Licence for 10 IPSec tunnels, can be extended to up to 110 IPSec tunnels as an option



Optional extensions for media gateways of the bintec RT Series:

- ▶ Licence packet for each 25 additional VPN tunnels, hardware-accelerated
- ▶ Service package with 5 years first class service and preliminary exchange
- ▶ Hot Spot function
- ▶ Cobion Content Filtering



bintec RT4202

- ▶ 4x ISDN interfaces (BRI), freely configurable (NT/TE) for 8 simultaneous B-channels
- ▶ 4 analogue ports (FXS) for analogue terminals
- ▶ Integrated DSP for 12 channels
- ▶ Fan-free metal housing, internal energy-efficient switched-mode power supply
- ▶ 5 gigabit Ethernet ports, freely configurable
- ▶ Licence for 10 IPSec tunnels, can be extended to up to 110 IPSec tunnels as an option



bintec RT4402

- ▶ 2x ISDN interfaces (PRI), freely configurable for 60 additional B-channels
- ▶ 2x ISDN interfaces (BRI), freely configurable (NT/TE) for 4 simultaneous B-channels
- ▶ Integrated DSP for 30/60 channels (30 simultaneous hybrid connections in accordance with G.726/G.729/T.30/T.38 or 60 simultaneous connections in accordance with G.711)
- ▶ Fan-free metal housing, internal energy-efficient switched-mode power supply
- ▶ 5 gigabit Ethernet ports, freely configurable
- ▶ Licence for 10 IPSec tunnels, can be extended to up to 110 IPSec tunnels as an option

bintec TR200: Breaking new ground.

The media gateway for branches, SoHos, law firms and small companies: Unified Messaging.

VoIP, WLAN, routing and ISDN telephony— everything in a single device: The bintec TR200.

The bintec TR200 from Funkwerk Enterprise Communications offers a new generation of convergent communication solutions. A versatile and flexible multifunction gateway with professional features for IP routing, WLAN and business telephony. The bintec TR200 has been developed for high speed internet access over xDSL and can be used for remote access in SMEs and for remote offices.

This new product concept particularly benefits small companies of branched networks with a local system administrator, as support and setup costs for the bintec TR200 are considerably lower than with previous systems - the configuration can even be carried out remotely or via head office.

In the basic version the system offers two ISDN connections (BRI, internal/external), two internal analogue connections, one analogue exchange connection (POTS) and a 4-port switch (10/100 Mbit Ethernet) as well as a modern ADSL2+ modem for bandwidths of up to 16 Mbps. Five IPSec tunnels can be used simultaneously for VPN.

bintec TR200: The easy-connect multi-talent.

Traditional analogue terminals, ISDN telephones and up to 10 IP telephones (30 additional telephones can be licenced) can be connected to the bintec TR200. The system can be registered with up to 25 VoIP providers for internet telephony (SIP single or SIP DDI point-to-point). In Microsoft™ Exchange 2007™ groupware environments, the bintec TR200 can be used as a Unified Messaging Gateway.

The bintec TR200 automatically controls the firewall and the voice data functions, which makes configuration considerably easier for beginners. As WLAN access point the bintec TR200 supports IEEE 802.11b/g with a throughput of up to 54 Mbps.

Professional functions and optimum security

In the IP routing domain, the bintec TR200 breaks away from simple box solutions in favour of real professional functions: VPN support (5 IPSec tunnels) and ISDN fallback in the event of failure or disruption of the DSL connection are unique in this market segment.

In addition to WEP encryption, WLAN data transmissions are protected by secure WPA and WPA2 modes for using pre-shared keys or integrating a RADIUS server. Access control is carried out at port level over IEEE 802.1x. This multi-SSID capability allows multiple virtual wireless networks to be created, which can then be used to form user groups each with their own set of permissions.



ISDN and VoIP telephony united in harmony.

With ISDN system telephony performance features on the internal BRI bus, the bintec TR200 relies on a tried and trusted, comprehensive range of functions, which are also found in the elmeg Txxx and elmeg ICT systems: three-party conference, brokering, inquiry call, internal phonebook for all internal extensions and the optimum support for ISDN system telephones of the elmeg CS Series offer “state of the art” business convenience.

The integration of telephony and router functions, as found on the compact ISDN systems elmeg T484 and elmeg T444 with module 4 DSP, also allows a seamless, convergent transfer from traditional and IP telephony. Use your existing terminals and simply make calls over the internet - without additional hardware, without a PC, without a complicated setup. A 4-channel DSP built into the bintec TR200 for VoIP voice data processing and sophisticated quality-of-service

router functions guarantee high voice quality and maximum connection reliability—many competing systems only offer VoIP data processing emulated via software, the quality of which depends considerably on the current load of the system.

Set up and maintenance: A multi-level concept for every use.

The system is configured via a simple and intuitive HTML interface. The use and maintenance of several systems, e.g. in branched networks, is considerably simplified by remote maintenance functions. For example, the system can be upgraded with the latest software versions using “one-click update”, even remotely.

Performance features of the bintec TR200

	bintec TR200aw	bintec TR200bw
Hold for enquiry, call hold, brokering and three-party conference call	●	●
Number suppression (CLIP, CLIR)	●	●
Call forwarding (CFU, CFB, CFNR)	●	●
MSN specific exchange access	●	●
Blacklists and whitelists	●	●
Emergency number/priority circuit	●	●
Internal wait tones	2	2
10 emergency numbers, 10 speed dial numbers	●	●
Configurable extensions (3-digit)	●	●
Operation on the PBX connection	●	●
Multi-stage exchange access right	●	●
Call Through	●	●
Automatic direct dialling	●	●
Support for elmeg ISDN system telephones	●	●
Internal Phonebook	●	●
Number of SIP providers	25	25
Number of SIP terminals	10 (40 optional)	10 (40 optional)
Dynamic bandwidth management	●	●
Max. hybrid connections	4	4
SIP over UDP / TCP / SIPS	●/●/●*	●/●/●*
Fax transmission with T.38 relay	●	●
Fax transmission with T.38 proxy	●	●
Fax transmission over G.711	●	●

*) in preparation

Software

bintec XAdmin

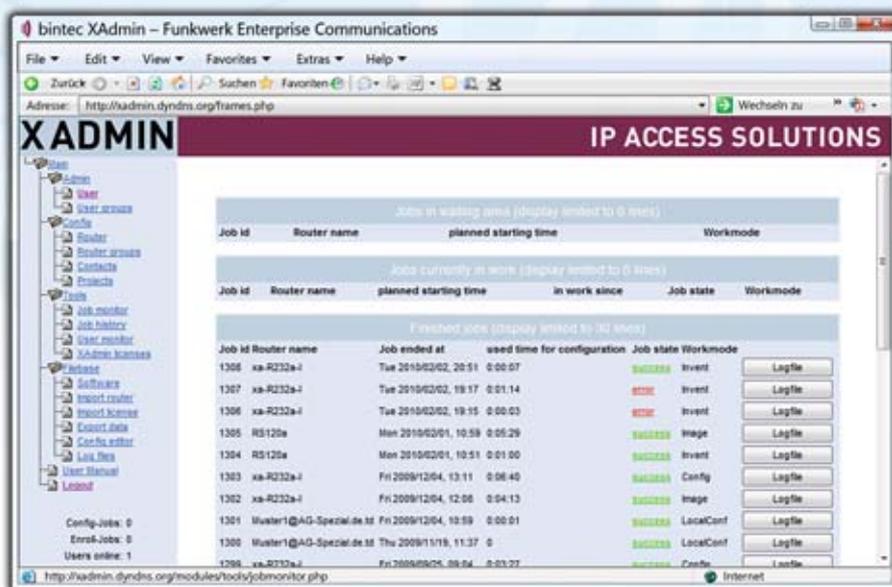
Standard routers are the first choice for providing a secure and stable connection between company head offices and subsidiaries. The required configuration of the branch's routers on site would be extremely laborious and uneconomical. bintec XAdmin offers a rapid, secure and convenient solution. With the bintec XAdmin, the system administrator can operate, configure, update and manage remote branch routers from head office. Even access points on the branch, which are operated behind the access point of the branch, can also be managed by XAdmin.

bintec XAdmin is offered in three versions, which distinguish between server and clients in terms of their connection: "XAdmin over IP" uses an existing IP infrastructure, "XAdmin over ISDN" and "XAdmin over GSM/UMTS" use public ISDN or mobile network connections.

This is also possible in combination with various XAdmin versions: For example, "XAdmin over ISDN" is particularly useful for the initial configuration when dialling into and configuring new routers in the ex works state. For updates and modifications during operation, however, "XAdmin over IP" is the lower cost version.

Performance features::

- ▶ Client server system with central database
- ▶ Web-based user interface
- ▶ Multi-user capability
- ▶ Individual configuration for each user by means of a flexible rights system with group and individual rights.
- ▶ Inventorisation of the router and database
- ▶ Automated processing of initial configuration (rollout) and updates
- ▶ Event-based or time-based configuration
- ▶ Import of configuration parameters using files in CSV format
- ▶ Success control and comprehensive, informative log files
- ▶ Major degree of reliability thanks to automated data backup system
- ▶ Stepped licence model



FEC Secure IPsec Client

The FEC Secure IPsec Client, which is tailored to the routers of the bintec RT Series, is ideal for mobile users who frequently work whilst travelling or from home. It offers a secure remote access over an existing IPsec gateway at head office or direct to an IPsec-capable server.

The integrated installation wizard ensures a quick and simple setup. Media detection automatically selects the optimum connection: analogue or DSL modem, ISDN, GPRS or UMTS.



An integrated UMTS (3G) Budget Manager offers full cost control over the mobile network connection. The integrated firewall with friendly net detection offers comprehensive protection for the terminal as well as the option for secure communication when dialling in over public Hot Spots.

Performance features:

- ▶ Support for Windows 7®, Windows® Vista® and Windows® XP (32 and 64 Bit)
- ▶ Use of strong authentication and encryption procedures
- ▶ Comprehensive IPsec functions such as IPComp, NAT Traversal, IKE Config Mode and XAuth
- ▶ Integrated personal firewall
- ▶ Automatic Hot Spot detection
- ▶ Integrated WLAN configuration
- ▶ UMTS (3G) dialler with integrated budget manager

A 30-day demo version is available from http://www.funkwerk-ec.com/ipsec_client_en

DIME Manager

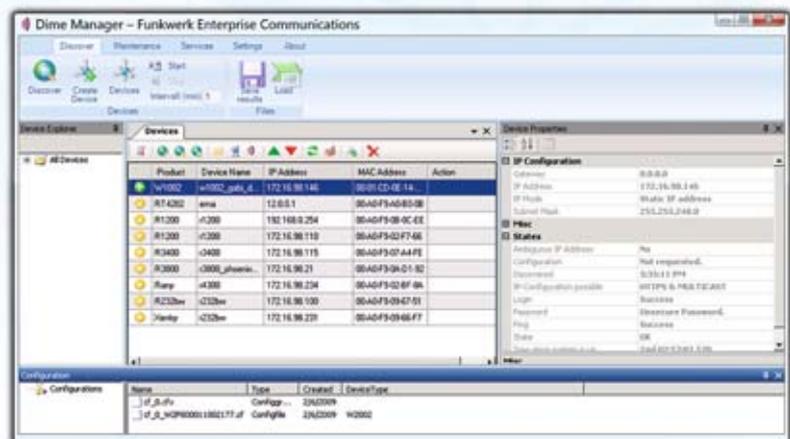
The free DIME Manager was developed for administrators that look after networks with up to 50 devices in the LAN or VPN and offers sophisticated device management for bintec hardware. The software simplifies the management and configuration of routers and access points either individually or in logical groups.

When developing DIME Manager, simple and efficient operation was the primary aim. Firmware status, uptime, current status, etc. are presented clearly for all devices in the LAN or VPN. Software updates or configurations can be applied to individual devices or groups of devices, e.g. simply by drag and drop. New devices in the network are detected and managed using SNMP multicasts, independent of their current IP address. Remote routers or access points in branches, subsidiaries or home offices are located using device discovery, even via VPN.

The DIME Manager supports all routers in the bintec RT, bintec R, bintec RS, bintec TR200 Series and access points in the W and WI Series.

Free download at

http://www.funkwerk-ec.com/dl_sw_dime_manager_en.html



Performance features of the bintec RT Series

	bintec RT1202	bintec RT3002	bintec RT4202	bintec RT4402
Hardware / Interfaces				
10/100/1000BASE-T	5	5	5	5
ISDN BRI ports, internal/external	2	4	4	2
ISDN PRI ports	–	–	–	2
Analogue ports (FXS)	–	–	4	–
Internal xDSL modem	–	ADSL (2+)	–	–
DSL variants	–	Annex A+B	–	–
Serial interface (console)	1	1	1	1
19-inch metal housing	•	•	•	•
Internal, energy-efficient switched-mode power supply	•	•	•	•
Digital signal processors (number of channels)	4	8	12	60
Remote CAPI / Fax Media Gateway				
Multi-Server / Multi-Site CAPI	•	•	•	•
Access control with user password	•	•	•	•
ISDN server virtualisation (use on virtual computers)	•	•	•	•
Fax profile group 3 (T.30)	•	•	•	•
Number of parallel fax channels	4	8	8	opt. 30
Dedicated DSP support for all channels	•	•	•	•
Fax clock rate, 14,400 Baud	•	•	•	•
Feature Set: Fax, Supplementary Services, DTMF, ECT...	•	•	•	•
VoIP Media Gateway				
SIP extension unlimited	•	•	•	•
SIP registrar	•	•	•	•
SIP Proxy (unlimited number)	•	•	•	•
SIP ↔ ISDN Gateway (number of channels)	4	8	8	60
Analogue → SIP Gateway (number of channels)	–	–	4	–
Number of simultaneous VoIP connections without SW limit	•	•	•	•
Number of simultaneous hybrid connections	4	8	12	60
SIP DDI Trunk / SIP Link	•	•	•	•
ISDN Trunk (party lines)	•	•	•	•
Call router, flexible transfer according to rule lists	•	•	•	•
CLID Translation	•	•	•	•
Call Translation	•	•	•	•
Backup routes with unlimited number	•	•	•	•
DTMF In-Band and Out-of-Band (RFC 2976 / RFC 2833)	•	•	•	•
Audio Codecs G.711, G.726 (16/24/32/40 kbps), G.729	•	•	•	•
Echo cancellation in acc. with G.168 / Comfort Noise Gen. (CNG)	•	•	•	•
Audio Codec prioritisation	•	•	•	•
Fax gateway T.38 ↔ T.30 (number of simultaneous channels)	4	8	12	opt. 30
ISDN terminal adaptors (number of simultaneous channels)	4	8	8	60
SIP protocols UDP, TCP, TLS	•	•	•	•
Media protocols RTP, SRTP	•	•	•	•
SIP secure (TLS), secure call set-up	•	•	•	•

	bintec RT1202	bintec RT3002	bintec RT4202	bintec RT4402
Software IP access / routing				
Policy-based routing / NAT	•	•	•	•
PPPoE Client / PPPoE Server / Multi Link PPPoE	•/•/•	•/•/•	•/•/•	•/•/•
PPPoA / IPoA / Multi-Link PPPoA	–	•/•/–	–	•/•/•
DHCP Client / Server / Proxy	•	•	•	•
SIP Proxy / ALG	•	•	•	•
Multicast / IGMP v3 / IGMP Proxy	•	•	•	•
RIP v1 / v2 / Triggered RIP	•	•	•	•
Routing protocols OSPF / PIM	•	•	•	•
Multi-Bridging	•	•	•	•
VLAN	•	•	•	•
QoS / TCP Download Rate Control	•	•	•	•
NTP Client/Server / Automatic Daylight Saving	•	•	•	•
RADIUS / Tacacs+	•	•	•	•
Scheduling	•	•	•	•
DNS Client / Server / Proxy / Relay	•	•	•	•
Keep Alive Monitoring	•	•	•	•
X.25 over ISDN, X.25 to TCP, XOT, X.25 PAD, TP0 Bridge	opt.	opt.	opt.	opt.
UPnP	•	•	•	•
Load Balancing	•	•	•	•
Switch Port Separation	•	•	•	•
ISDN Leased Line	•	•	•	•
Hot Spot	opt.	opt.	opt.	opt.
VPN/Security				
IPSec tunnels included	10 tunnels	10 tunnels	10 tunnels	10 tunnels
Max. number of IPSec tunnels	110 opt.	110 opt.	110 opt.	110 opt.
IPSec hardware acceleration / encryption	•	•	•	•
IPSec IKE (PSK & X.509)	•	•	•	•
PKCS #7/8/10/12, SCEP	•	•	•	•
IKE Config Mode / IKE X-Authentication (Client/Server)	•	•	•	•
IPSec NAT-Traversal / Dead Peer Detection	•	•	•	•
IPSec in conjunction with NAT/QoS/RADIUS	•	•	•	•
IPSec IP address in D/B channel	•	•	•	•
PPTP (Client / Server)	•	•	•	•
L2TP	•	•	•	•
GRE	•	•	•	•
Max. number of PPTP / L2TP / GRE tunnels	110	110	110	110
DynDNS / DynVPN	•	•	•	•
NAT / PAT	•	•	•	•
Stateful Inspection Firewall	•	•	•	•
IP packet filter	•	•	•	•
Content Filtering	opt.	opt.	opt.	opt.
Email alert	•	•	•	•
Local Services Access Control	•	•	•	•
Backup				
Device redundancy (BRRP)	•	•	•	•
Backup ISDN / analogue / GSM / GPRS	•/•*/•*/•*	•/•*/•*/•*	•/•*/•*/•*	•/•*/•*/•*
Management				
Detailed IP accounting	•	•	•	•
Internal / External system logging	•	•	•	•
Management over HTTP, HTTPS, SNMP, SSH, FCI, Telnet	•	•	•	•
Remote software upgrade & configuration download	•	•	•	•
DIME Manager support	•	•	•	•
XAdmin support	•	•	•	•

*) External modem and cable required

bintec RT Series bintec TR200aw/bw

Media Gateways for convergent communication solutions—high performance with multiple certifications

The media gateways of the bintec RT Series and the bintec TR200 Series combine and duplicate their possibilities and permit the smooth migration of traditional telephony to integrated voice/data solutions:

- ▶ Integrated VoIP DSP hardware and flexible codecs
- ▶ Interfaces for analogue and ISDN telephony
- ▶ Sophisticated QoS routing functions
- ▶ Certified by renown third-party manufacturers as an IP fax gateway and for IP PABX
- ▶ Integrated system telephony know-how from elmeg

Whether used as a fax gateway with virtual ISDN cards in the LAN, for Fax over IP or for hybrid ISDN VoIP networks with protection by Voice over VPN® – the media gateways in the bintec RT Series will meet your requirements. Your system house will be happy to advise!



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Voice over VPN is a registered trademark of Funkwerk Enterprise Communications GmbH.

Funkwerk: The Perfect Fit.

V O I C E , D A T A , S E C U R I T Y .

Communications solutions which adapt themselves to your company instead of the other way round: With Funkwerk systems, you can work more efficiently and securely.

Our product portfolio allows companies of any size to connect different company sites securely with each other using VPN, to protect their networks reliably against spamming and viruses, to connect mobile employees with the company headquarters, and to set up and operate flexible, reliable, high-speed telecommunications or wireless LAN infrastructures boasting a wide range of features.

Hardware with long life cycles, efficient commissioning, reliable operation, and competent partners: Funkwerk will provide you with a tailor-made solution!

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