



2N® BlueTower

A Unique PRI/VoIP – GSM/UMTS Solution



AVAYA

Reduce your telecommunication costs dramatically!

2N® BlueTower is PRI – GSM/UMTS gateway with up to 8 channels. It's an ideal solution for medium size enterprises with heavy traffic to GSM/UMTS networks. 2N® BlueTower reduces dramatically the costs of calls from fixed to mobile networks. This GSM/UMTS gateway converts fixed-to-mobile or mobile-to-fixed calls into much cheaper mobile-to-mobile calls. Thanks to the sophisticated Least Cost Router (LCR), all calls are always routed in the cheapest possible way.

With the Dynamic Clip Routing feature, incoming calls are always routed to the right extension according to a flexibly changing number database. 2 ISDN PRI interfaces allow you to install the device between the PBX and PSTN. This eliminates the need to install an additional PRI port over your PBX. Moreover, you do not need to reconfigure your PBX, which is very useful especially if your PBX is rather obsolete.

Key benefits

- Least Cost Routing with multiple tariff counter
- Web interface
- High-end SMS solution
- Easy to install, manage & upgrade

Main Features

- SMS sending/receiving over web interface, Email or SMPP (Short Message Peer-to-peer)
- Call Back, Auto CLIP Routing
- CDR/SDR (Call Data Records/SMS Data Records)
- Up to 8 GSM/UMTS channels
- Up to 32 SIM cards (up to 4 SIM cards per channel)
- VoIP-SIP and PRI-ISDN interface in one box
- 2N® SIM Star support
- Number portability solution (with 2N® External Routing Machine)
- Integrated antenna splitter

Who can use it?

- Call Centres
- Banks
- International corporations
- Traffic terminating/originating companies



If you are interested in our product please call +420 261 301 500 or email us at sales@2n.cz. Visit www.2n.cz for more information.

2N® External Routing Machine (ERM):

2N® External Routing Machine brings you not only following benefits:

- **Unlimited number of routing rules**
- **Number portability support**

Outgoing call will be always forwarded to appropriate GSM/UMTS network even if original mobile number belonged to a different provider before. You will always use the route you are expecting to be used as a cheapest way.

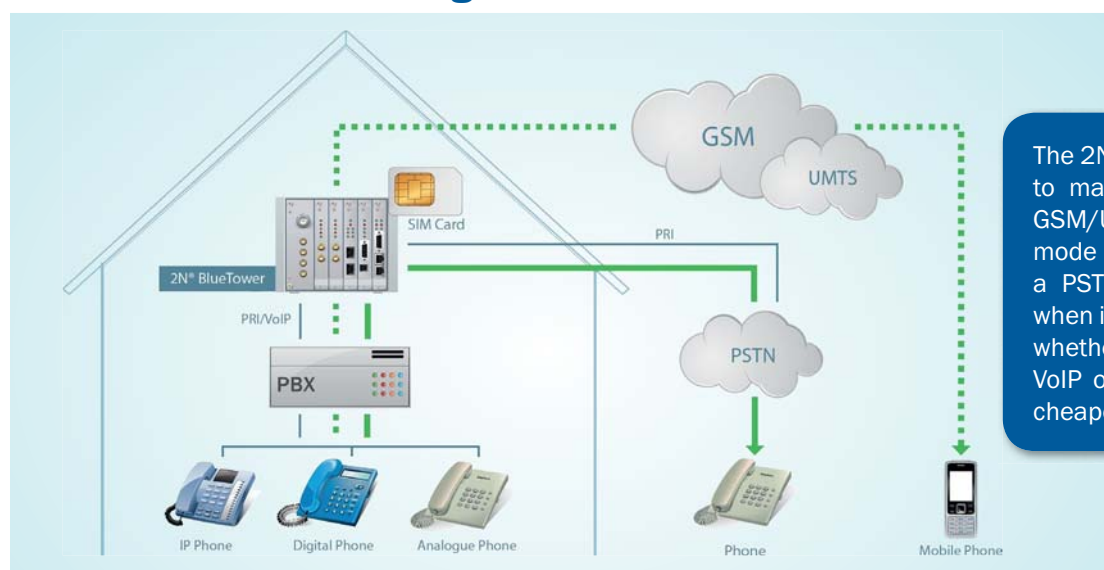
- **Dynamic Black&White list**

Allows you to block/allow to make calls to specific mobile numbers and allow/block all other numbers. This list can be filled dynamically according predefined settings, so you can easily and fully automatically blocked such a numbers which cause you any trouble.

You can get even more when combine 2N® ERM with 2N® SIM Star server solution. This combination is the best solution for your business you can find on market. Would you like to do the business the most effective way?

Feel free to contact our sales team.

2N® BlueTower cost savings:



The 2N® BlueTower is designed to maximise cost savings on GSM/UMTS calls. In DialThru mode it connects between a PSTN network and a PBX, when it automatically identifies whether the call is to GSM, VoIP or PSTN and selects the cheapest route.

Technical parameters

VoIP

Voice signalling	SIP
DTMF sending	RFC2833
No. of voice channels	30
Codecs	G.711 PCM A-law/u-law (selectable) G.729 Annex A CS-ACELP at kbps G.723.1 MP-MLQ/ACELP at 6,3/5,3 kbps
Echo Cancellation	G.168-2000; max. echo length 25 ms (15 ms for G.729A)

GSM/UMTS Interface

Number of channels	2-8 (step by 2)
Network bands	UMTS 800/850/900/2100 MHz GSM 850/900/1800/1900 MHz
GSM/UMTS Modules	Cinterion MC55i-w Telit GE910 Telit HE910-EUR

PRI ISDN

Number of ports	1xNT and 1xTE
PRI ISDN details	Signalling EDSS1 (Q.931)
Frame type	E1

Communication

Protocols	TCP, UDP, IP, RTP, TELNET, HTTP, SNMP, SMTP, POP3, SIP, SMPP
Connector type	LAN 10Base-T, LAN 100Base-T, RJ45, 2x RS232 - AT interface
Administration method	AT command Administration SW Web interface

Power source

Power supply type	100-240V, 50-69Hz or 36-70V DC
Power input	Max. 230 VA

Integrated antenna splitter (optional)

Input connector	SMA (female), Impedance 50 Ω
Output connector	N type (female), Impedance 50 Ω
Isolation between two channels	>20dB

Other

Operation temperature	20-50 °C
Relative humidity	max 95% at 40 °C
Dimensions (WxHxD)	186x133x256mm (29HPx3Ux256mm)
Recommended	To be kept in air conditioned room Line interactive UPS

Contact us now for more information!



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