NovaTec
Mobilephone Gateway:
NMG S5+, S6, S20

The **NovaTec Mobilephone Gateway (NMG)** provides your PABX direct access to the GSM / VoIP and ISDN networks. Outgoing calls are automatically routed through the appropriate network according to the number dialled. The high performance advanced least cost router, ALCR, is used to determine the path the call takes.

Furthermore your PABX has the advantage of being able to access the GSM / VoIP network in addition to the ISDN network. It is also possible to use the GSM network as a back-up network, should ISDN or VoIP access be unavailable.

Parallel connection of VoIP end devices as well as ISP server via SIP trunking is also possible.

The benefits:
- Cost-effective access to the GSM telecommunications network for incoming and outgoing calls;
- Fast GSM call set-up. Call-through connection via the fixed network and its associated bottlenecks are avoided;
- Fast and easy installation and set-up/start-up/ operation. The fixed network advanced least cost router and GSM router are provided in one integrated system;
- A password is not necessary. It is impossible to misuse the connection between the fixed and mobile networks in either direction;
- Precise charge information for connections to the GSM and ISDN networks can be generated and displayed;

- Activation of the call back functions can be realised over fixed net/GSM international and national routes to reduce again phone call charges;
- Incoming calls are mediated automatically or by manual dialling per mobile phone (depending on dialled number);
- It is possible to receive or transmit data, faxes and SMS news for suitable ISDN terminals or PCs over the mobile net;
- Remote control, full call-data provision, automatic network management system, call information interpreter and a real time call monitoring are available;
- Time or Price budgeting of SIMs;
- Remote budget monitor via email or SMS;
- Budget dependent SIM Multiplexing for each SIM per GSM channel;
- Advanced CDRs with precise individual SIM information;
- OSI Layer 3 Analysis Data tracing in: IMSI, IMEI, ICC-ID, Budget (actual expiration and limit), Home Carrier, Actual Carrier, GSM-Engine Date (Name, Manufacturer, Firmware Version), Cell-ID, LAC, Last release reason, active connection.

Examples of potential users:
- Companies with high volumes of field workers;
- Hospital control centres;
- Distributors or direct access carriers for GSM network communications;
- Providers with subscription offers.

Mechanical Data:

NMG S5+:

Desk top version: Width x depth x height: 36 x 22 x 6 cm. Min.weight: approx. 4.5 kg up to max. 6 kg
19" rack version: Width x depth x height : 48 x 22 x 6 cm. Min. weight: approx. 5 kg up to max. 6.5 kg
NMG S6:   Width x depth x height: 48 x 22 x 14 cm. 19" rack. Min. weight: approx. 7 kg up to max. 10 kg
NMG S20: Width x depth x height: 48 x 26 x 26.5 cm. 19" rack. Min. weight: approx. 7 kg up to max. 15.8 kg
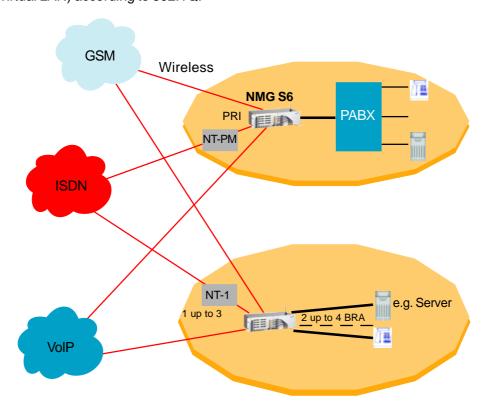
NMG S5+, S6 and S20 are delivered with the following slide-in modules whereby every interface combination
is possible:

- PRA / PRI (S_{2M}): E-DSS1
- BRA / BRI (S_0):   E-DSS1
- BRA / BRI (U):   E-DSS1
- SIM Multiplexer / SIM Carrier Unit (SCU)
- Enhanced Wireless Access Unit (EWU), 900 and 1800 MHz
- Wireless Access Unit (WAU), 900 and 1800 MHz
- Mobile Control Unit (MCU), 900 and 1800 MHz, two GSM- and four VoIP-Channels
- VoIP 4 U (V4U) with four VoIP-Channels
- B-Channel Unit (BCU) with 4, 8, 16 or 32 VoIP channels

Operational areas:
- Back-up systems;
- Firewall applications;
- Mobilephone gateway**;**
- PABX access via GSM and/or VoIP (Internet/IP telephony);
- VLAN (virtual LAN) according to 802.1Q.

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