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Mobility Feature of the NovaTec Gateways

NovaTec Kommunikationstechnik GmbH

welcomes you

to this presentation



Short description of the Mobility Feature

The Mobility Feature is a comfortable feature for closed GSM user groups that can use some features as though they were an extension line of the communication system.

These GSM users are integrated into the complete system via the NovaTec Gateway. The Call-Control is being processed internally in cooperation with the communication system.

These features can be activated and used independently of the GSM end appliance and the GSM net.

The use of these features on the NovaTec platform is not licensed and not restricted to a certain number of users.



Description of a possible application

The following situation shall clarify the use of the Mobility Feature:

1. The employees of a company are not in the office but shall always be easy to get to, even when they are en-route.
2. The mobile number of the employees shall not be known outside of the company.
3. When an employee who is en-route gets a call she/he shall be able to put the call on hold, make queries to colleagues in the office and possibly connect the calling person with the colleague.
4. The employee who is en-route shall be in the position to call customers or colleagues in the office via a abbreviated dialling function in her/his mobile phone whilst the fixed net number of the employee is being transfered to the called person and not the mobile number.
5. The employees who are en-route shall be able to send SMS to one or several Email boxes of their colleagues and also receive Emails as SMS.
6. It is understood, that the use of these features can be restricted to certain user groups and also that tools for cost control have to be available.



Description of a possible application

How can this be realized?

All the before mentioned features can be realized with the NovaTec Mobile Gateway (NMG) and furthermore cost savings can be obtained.

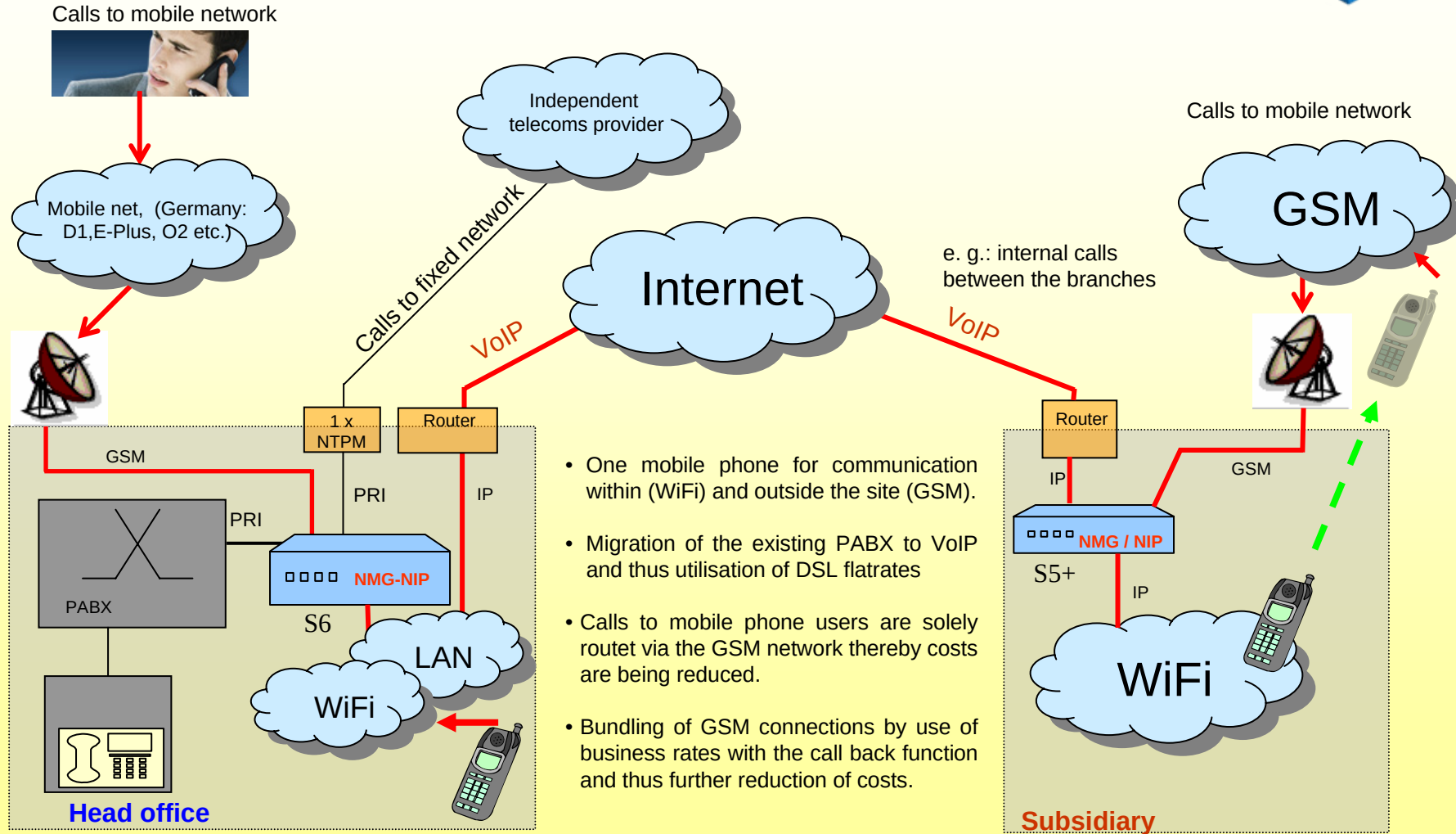
How can the NMG be integrated into the existing ITC infrastructure?

The NMG has got different interfaces and thus can be connected via IP (VoIP/SIP), PRI, BRI and U_{ko} . Two connection proceedings are possible:

1. **Transparent mode:** This means that the NMG is installed between the telecommunications infrastructure and the public network. It is not necessary to change the configuration of the existing ITC infrastructure or add more ports/interfaces.
2. **Parallel mode:** This means that the NMG is connected to the telecommunications infrastructure like a sub PABX. The NMG has no direct access to a public or superior network.



Modern telecoms infrastructure with NovaTec gateways





How does the user handle the Mobility Features?

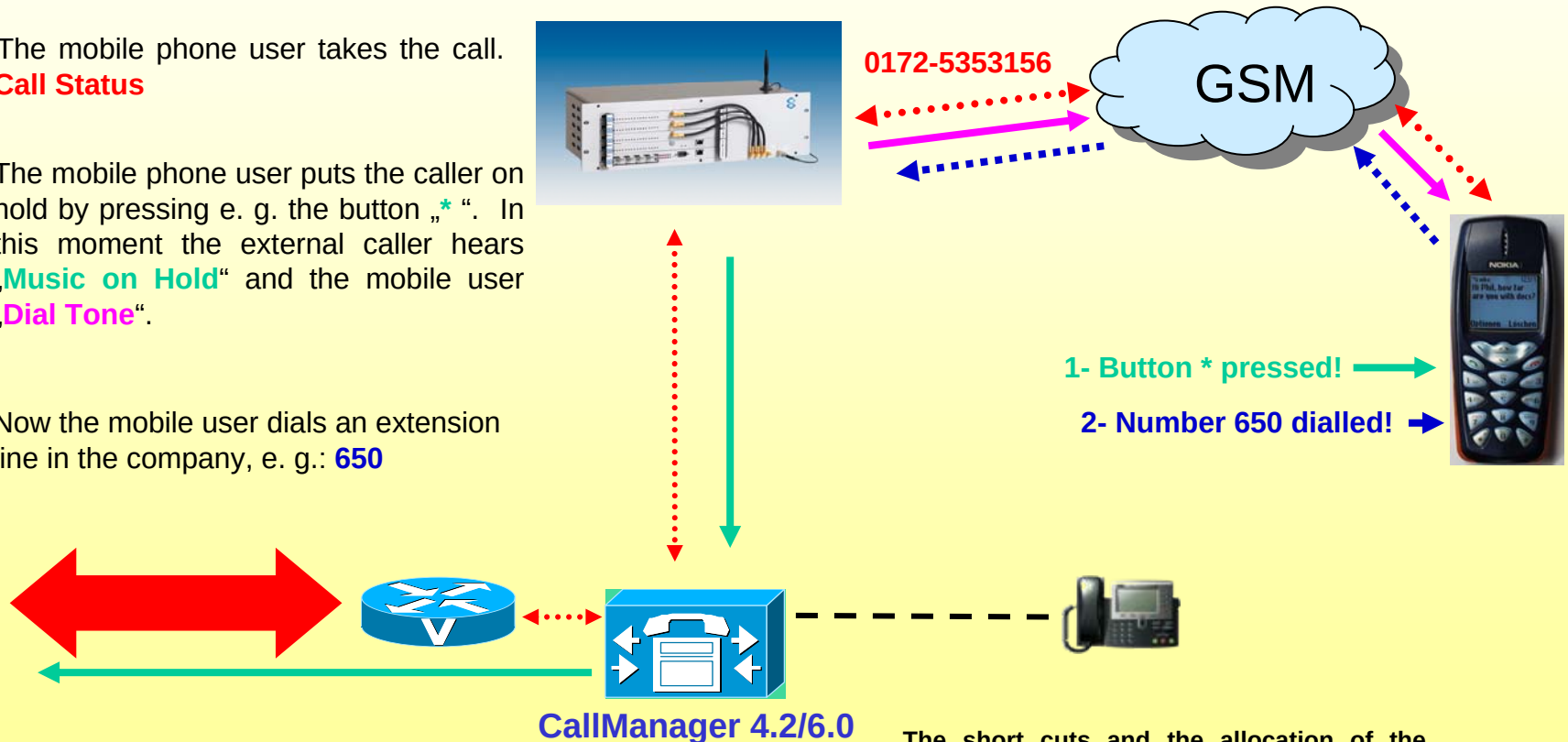
Example: In parallel mode with Cisco environment as ITC infrastructure:

- 4- The mobile phone user takes the call.

Call Status

- 5- The mobile phone user puts the caller on hold by pressing e. g. the button „* “. In this moment the external caller hears „**Music on Hold**“ and the mobile user „**Dial Tone**“.

- 6- Now the mobile user dials an extension line in the company, e. g.: **650**



The short cuts and the allocation of the mobile users can be configured in the NMG!

----- IP



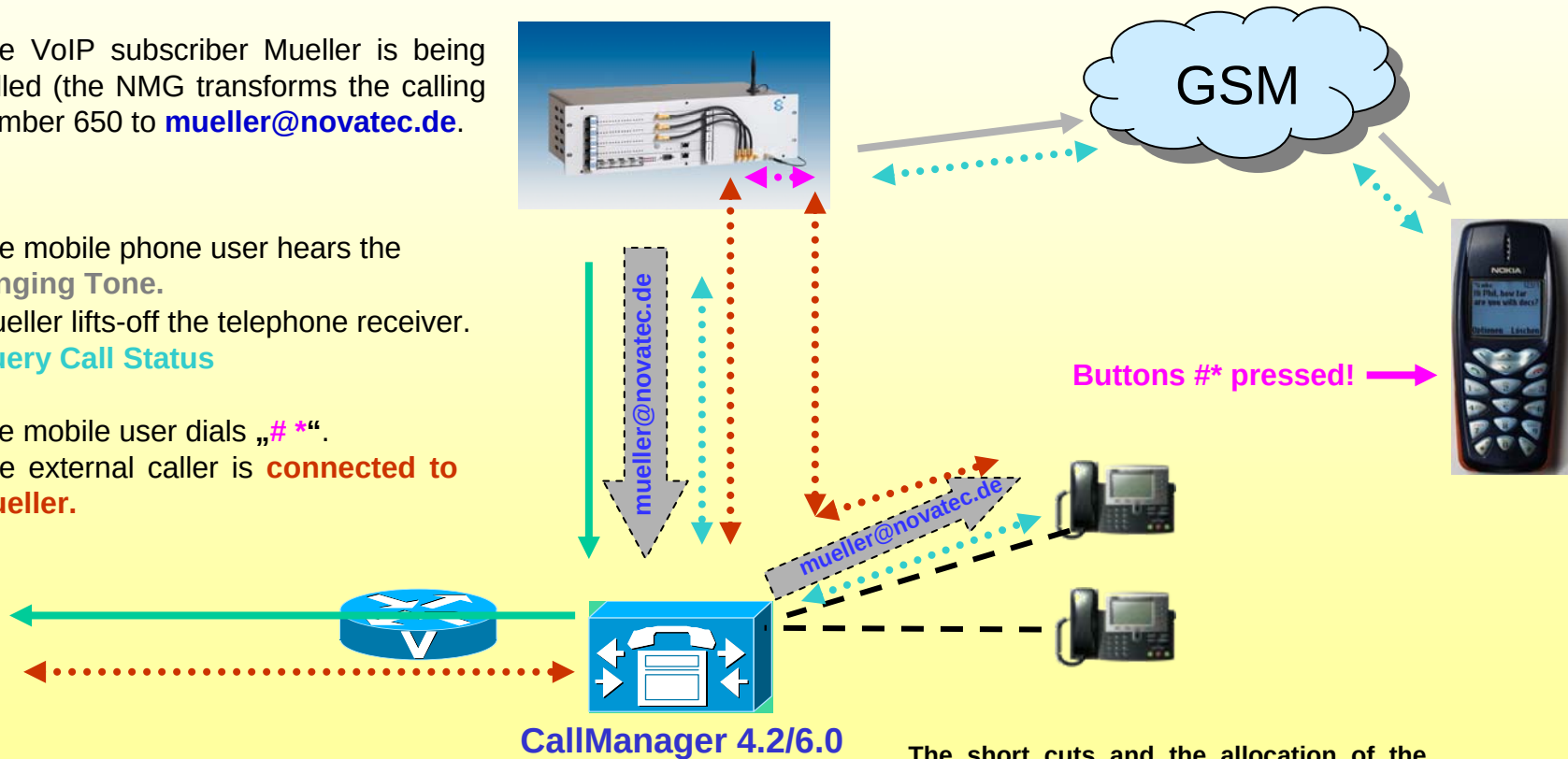
How does the user handle the Mobility Features?

Example: In parallel mode with Cisco environment as ITK infrastructure:

7- The VoIP subscriber Mueller is being called (the NMG transforms the calling number 650 to **mueller@novatec.de**).

8- The mobile phone user hears the **Ringing Tone**.
Mueller lifts-off the telephone receiver.
Query Call Status

9- The mobile user dials „#*“.
The external caller is **connected to Mueller**.



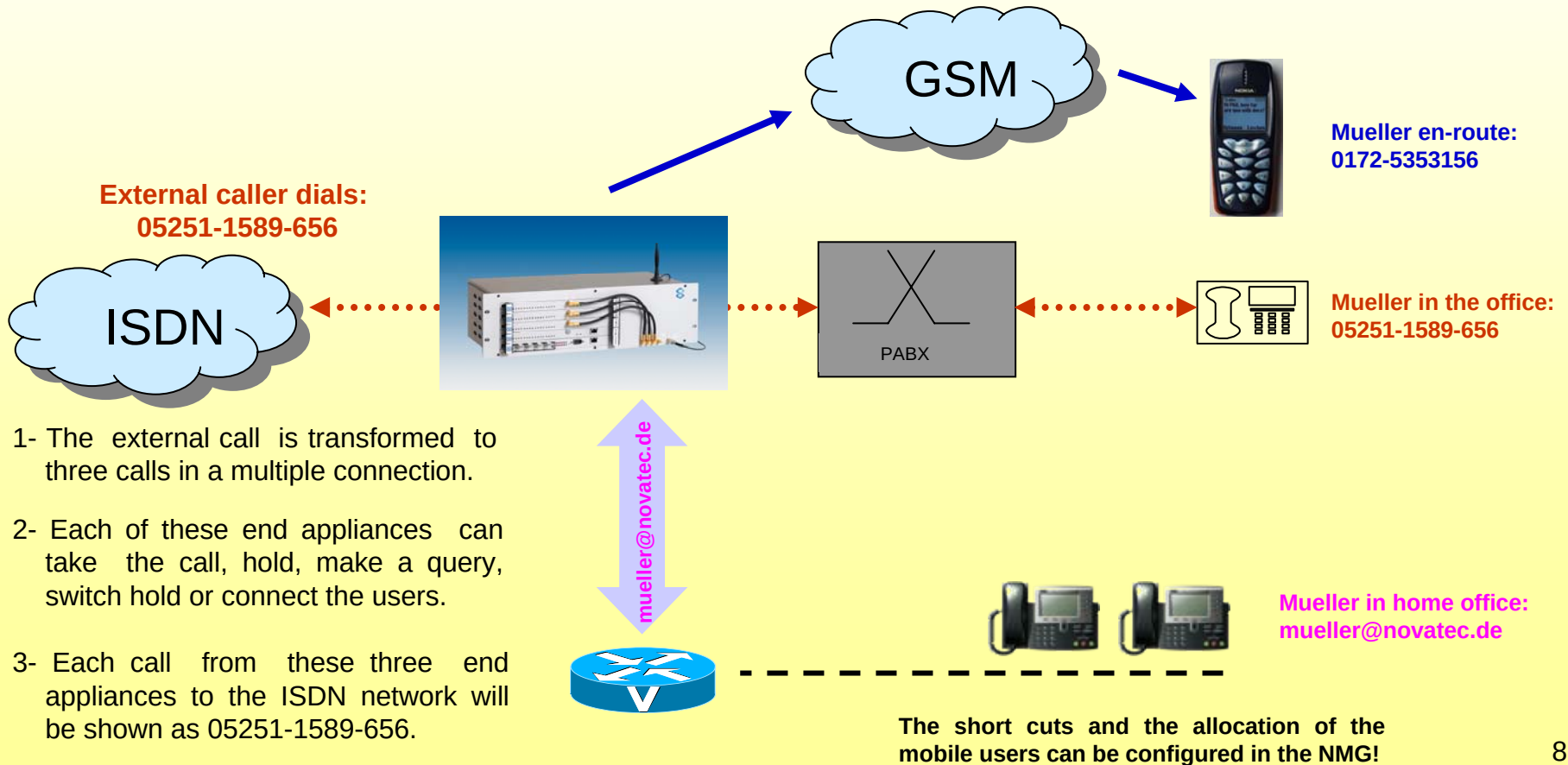
The short cuts and the allocation of the mobile users can be configured in the NMG!

----- IP



How does the user handle the Mobility Features?

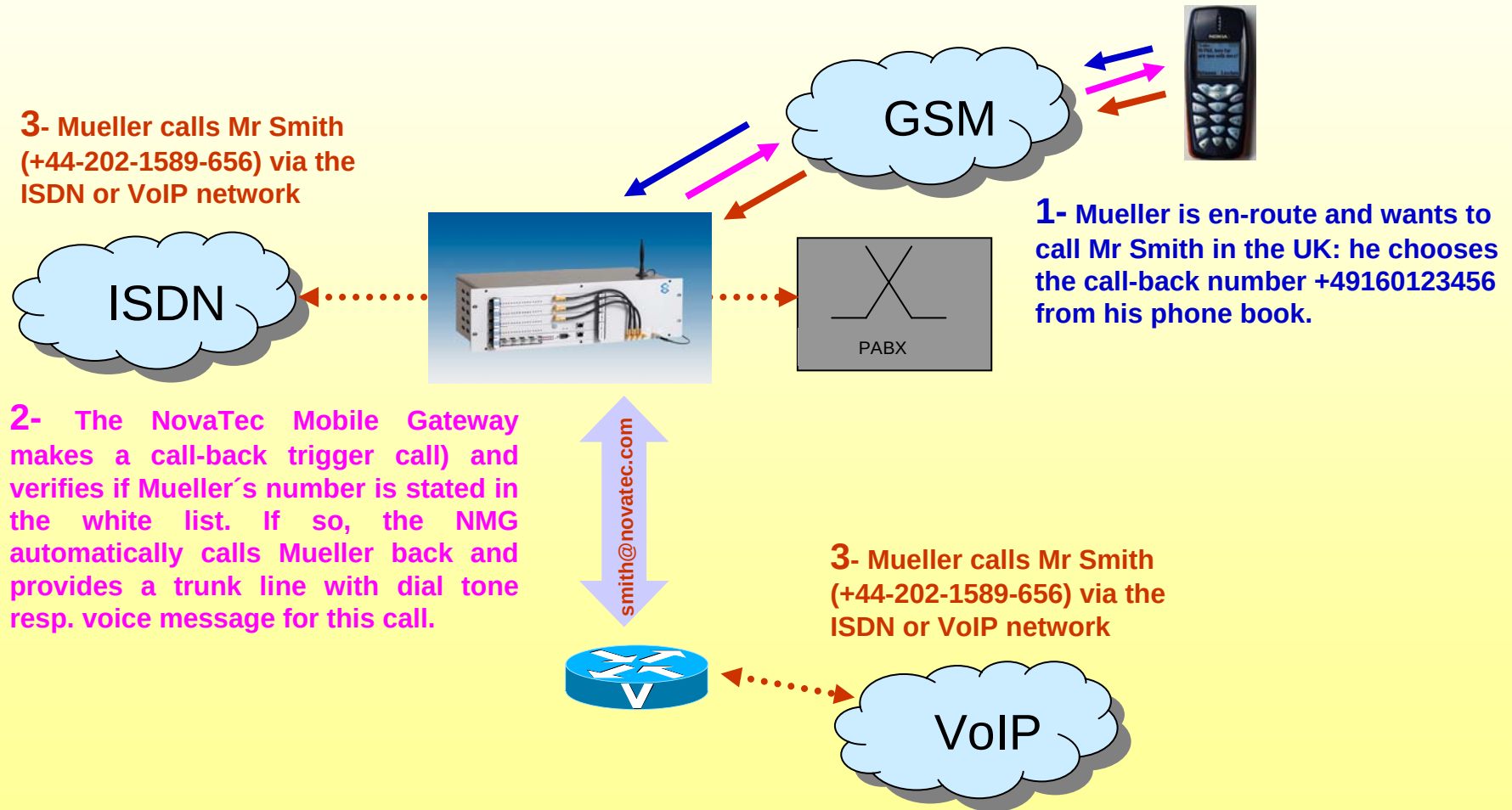
Example: In transparent mode with optional environment as ITC infrastructure:





How does the user handle the Mobility Features?

Example: Call-back in transparent mode with any ITC infrastructure:

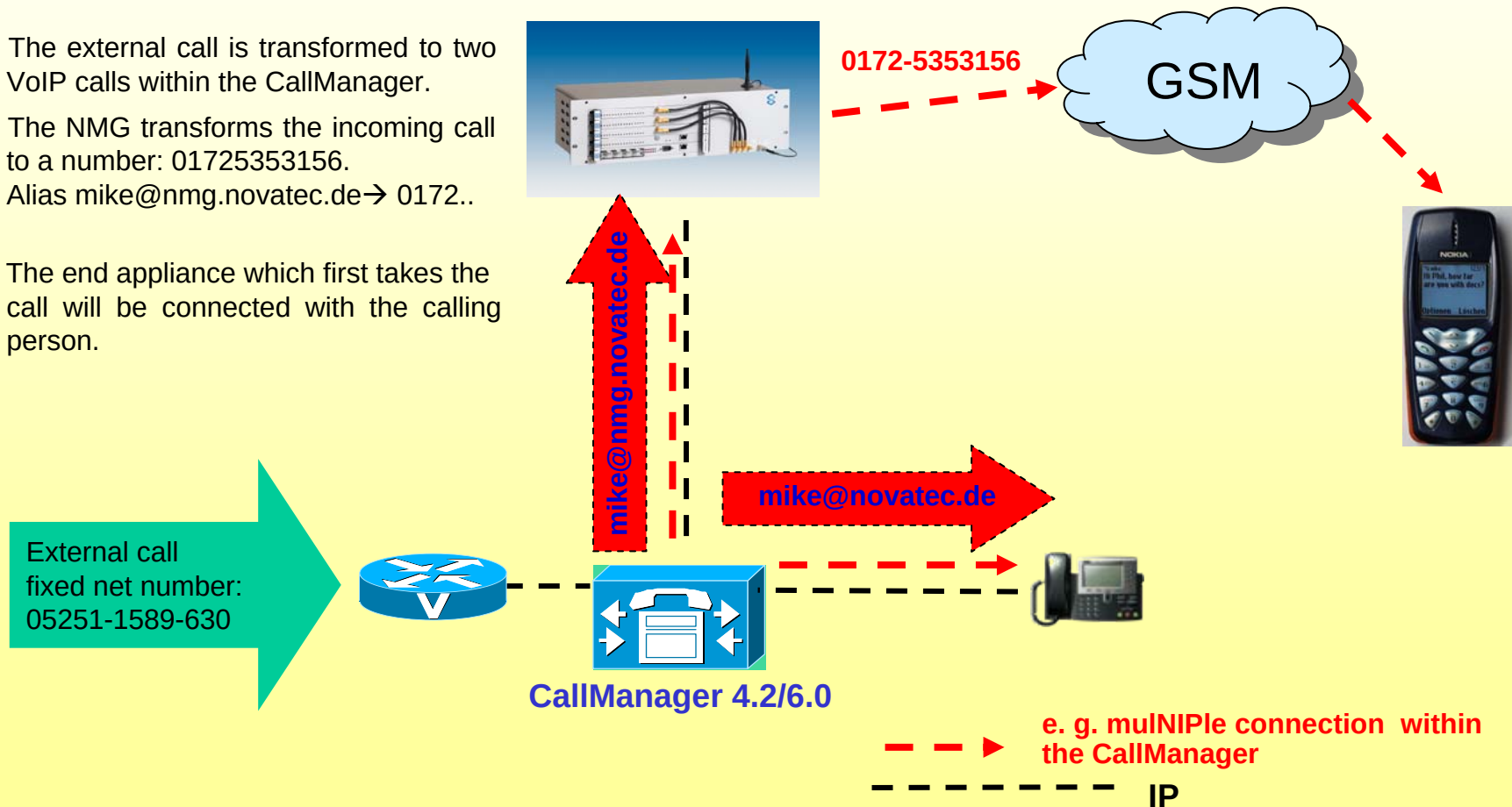




How does the user handle the Mobility Features?

Example: In parallel mode with Cisco environment as ITC infrastructure:

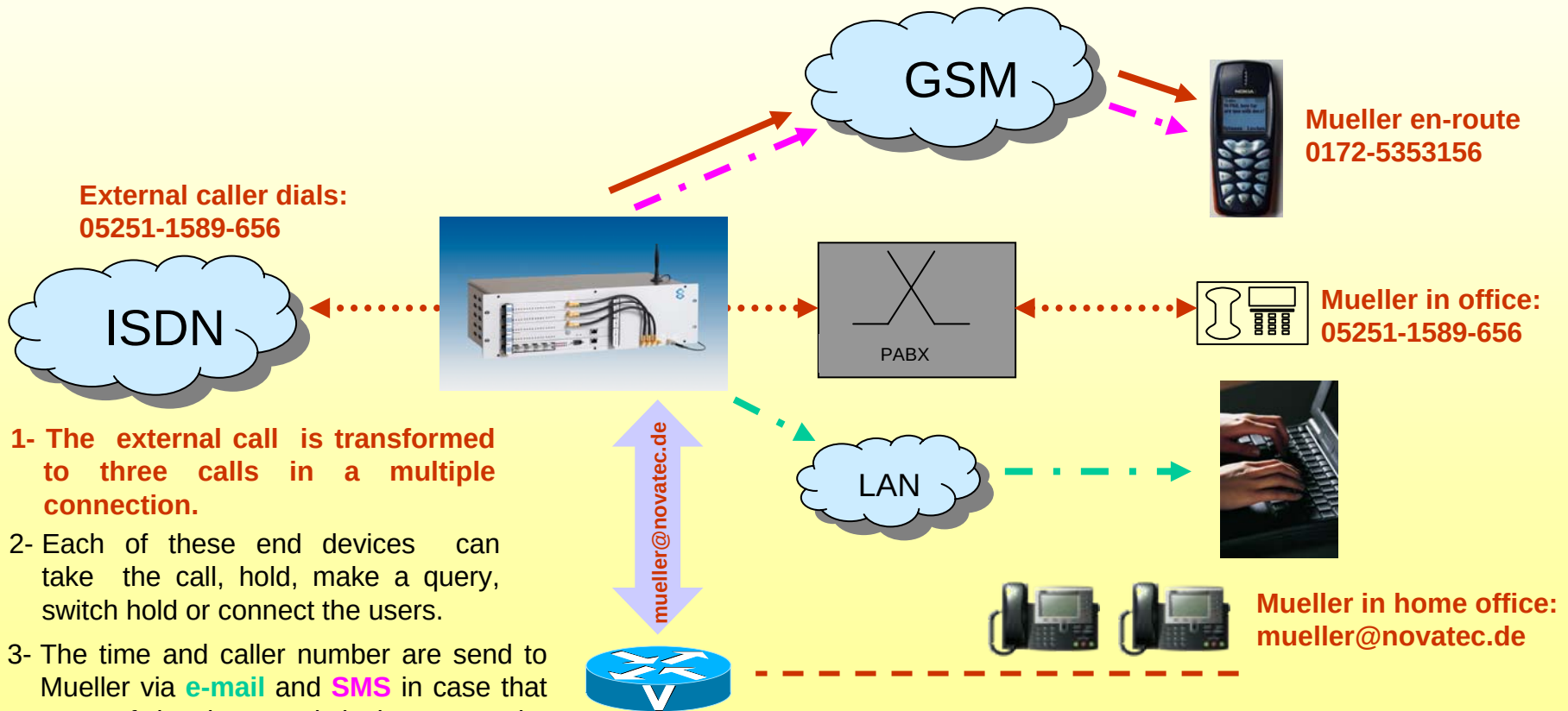
- 1- The external call is transformed to two VoIP calls within the CallManager.
- 2- The NMG transforms the incoming call to a number: 01725353156.
Alias mike@nmg.novatec.de → 0172..
- 3- The end appliance which first takes the call will be connected with the calling person.





How does the user handle the Mobility Features?

Example: SMS information service in transparent mode with any ITC infrastructure

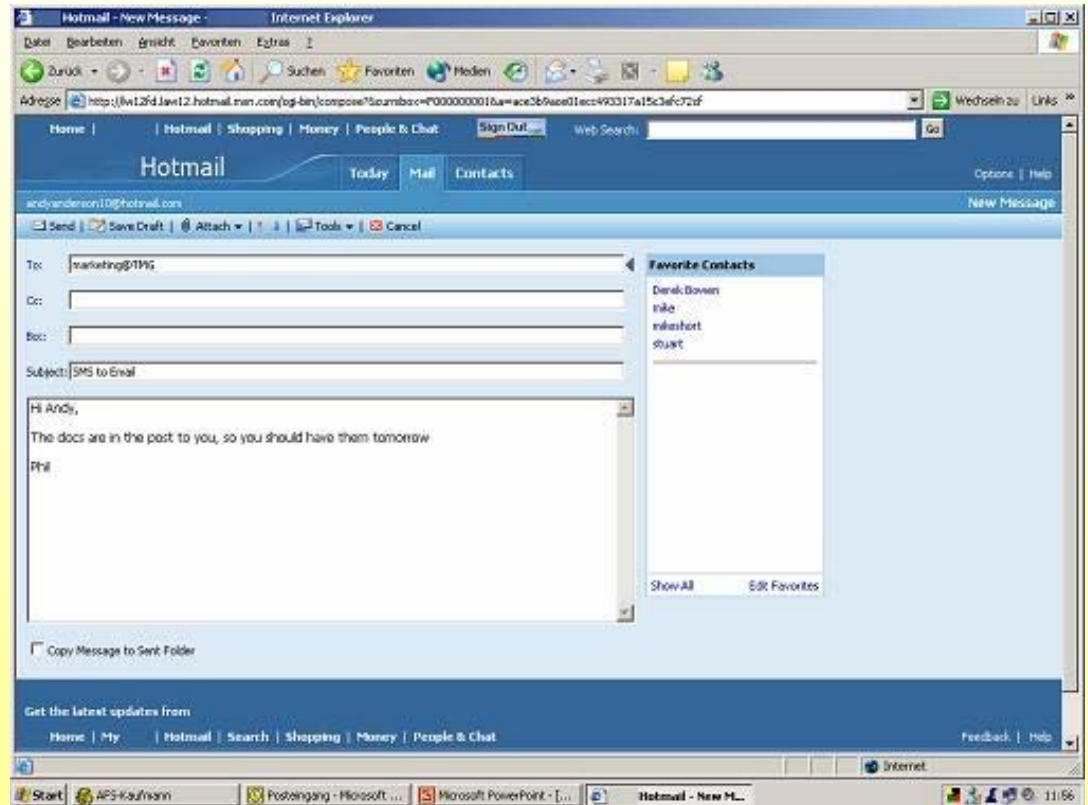


- 1- The external call is transformed to three calls in a multiple connection.
- 2- Each of these end devices can take the call, hold, make a query, switch hold or connect the users.
- 3- The time and caller number are send to Mueller via e-mail and SMS in case that none of the three end devices can take the call. Mueller can call back promptly.



How to use SMS-Email-SMS

A typical browser window can be used to write Emails and send them to mobile phones.

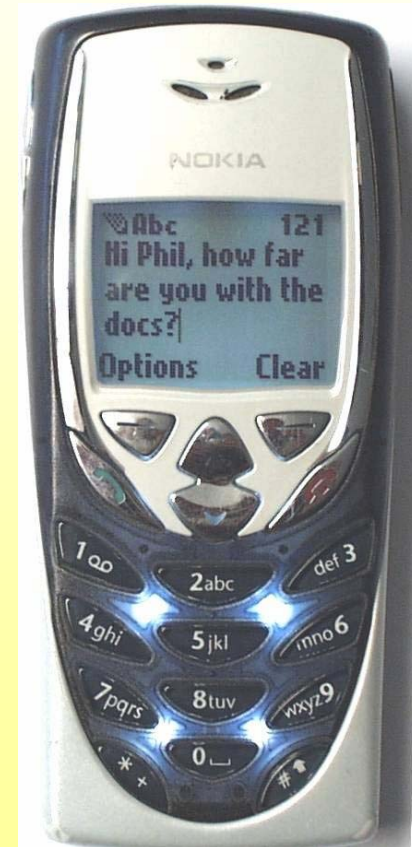




How to use SMS-Email-SMS

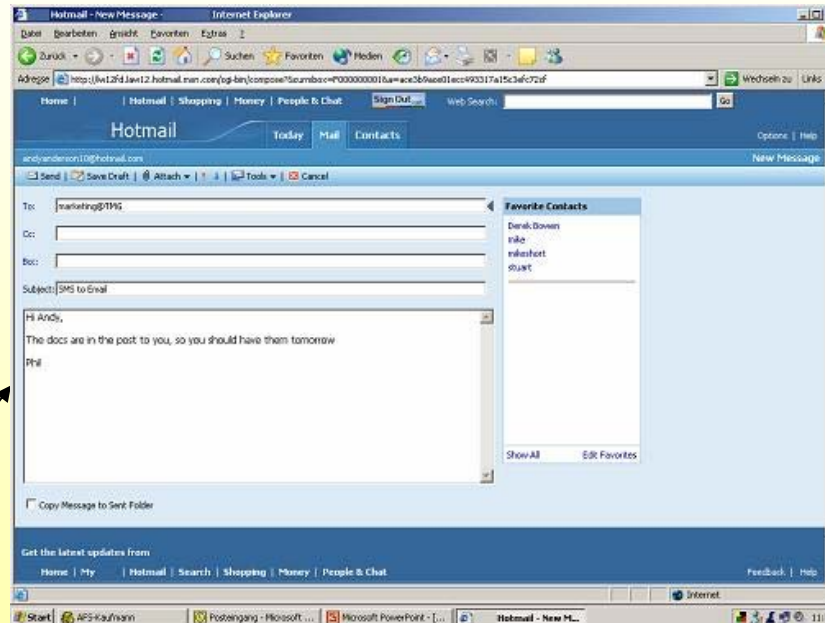
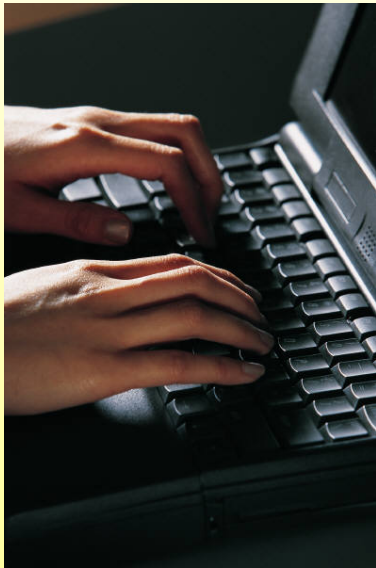
Information sent by Email will be received by the mobile phone user as a SMS and vice versa.

Messages sent by SMS will be received by the recipient as an Email.





Writing an Email to a mobile phone

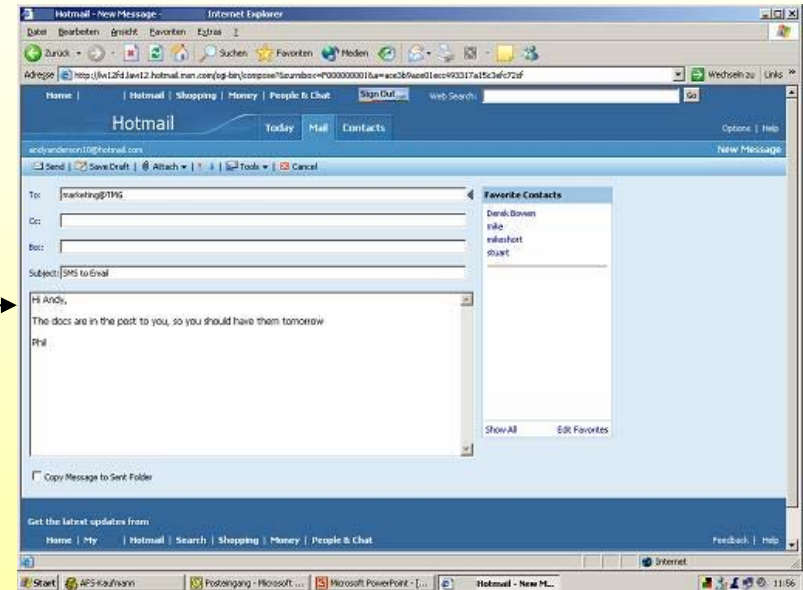
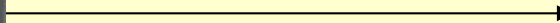


Message written on normal
Email programme

Message received here
as SMS



Writing a SMS to an Email address

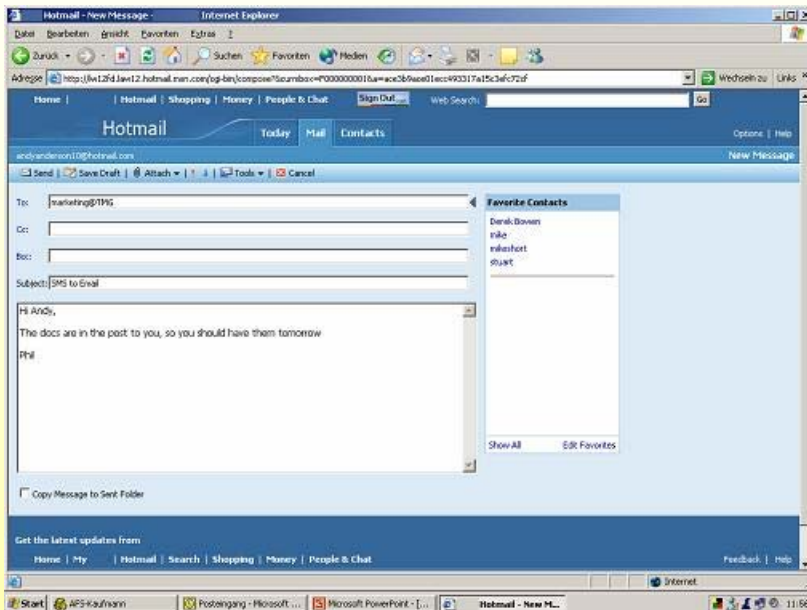


Message received here as an Email

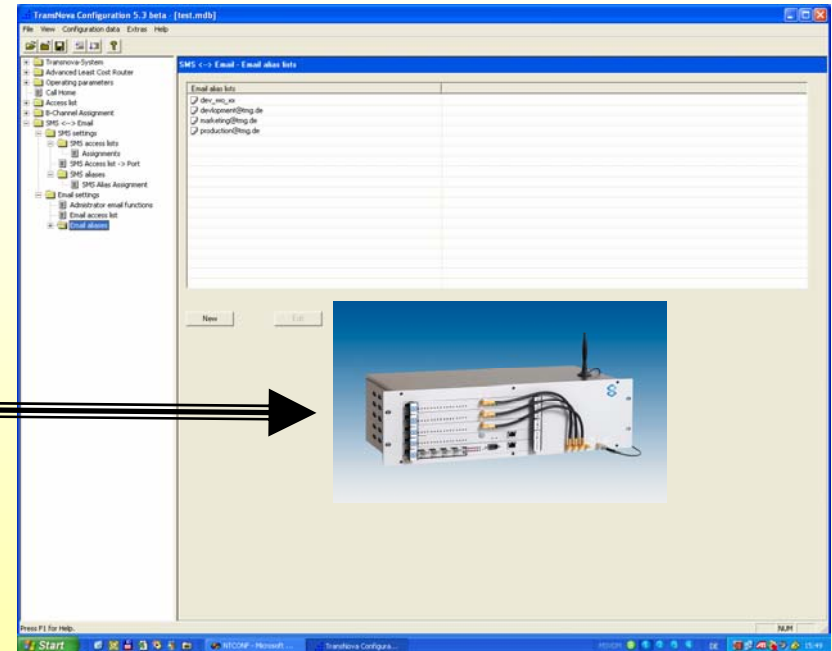
Message wrote as SMS



Alias Configuration



Email written in normal mail program.



The Alias list had been set before in the configuration of the NMG.



Alias configuration

Alias configuration checked to see which recipients are under Alias group and then message sent as an SMS to the multiple addressees.

Marketing@nmg.de

Production@nmg.de



Alias configuration

With the Alias feature you can list multiple addressees under one name, e.g. `marketing@nmg.de`.

All numbers or names on this list will then receive the message, these can be members of production teams or marketing representatives and do not have to be in country to receive these messages.



Contact us

If you would like to find out more about our products please send

an Email to info@novatec.de

or

just contact our sales team on the following number:

+49 (0)5251 1589-610

Thank you for your attention!