

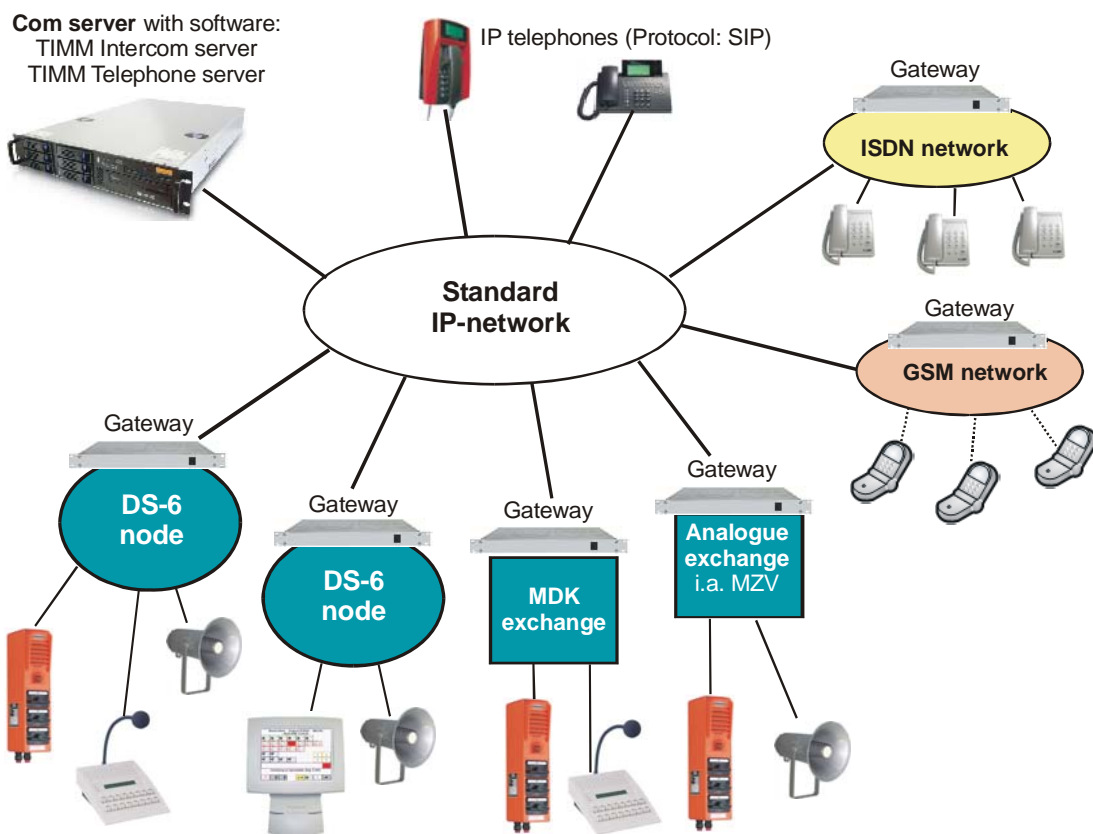
Newsletter 2010-2

Telephony in connection with our innovative IP system TIMM*

Our innovative IP system TIMM enables connections between the telephony and our intercom and PA systems. These connections are established by means of the software TIMM Telephone Server, which is integrated in our TIMM Com Server.

The software supports i.a. the protocols SIP, H323 and IAX2. It provides standard functions of the telephony like VoiceMail, conferences, call-forwarding, call transfer etc.

Furthermore, special not standardized connections are implemented by means of IAX2, a connection between a telephone channel and a DS-6 gateway, for example; thus allowing for calls between telephones (duplex) and DS-6 call stations (intercom) or amplifiers (public address).



* **"TIMM"** our communication system for overall IP networks with focus on intercom, PA, alarm, emergency call, telephony and video technology with central control via communication server.



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General standard telephone functions in connection with TIMM

The software TIMM Telephone Server provides in the range of telephony the usual standard functions, which are tabulated in the following.

Functions	Description
Setup of a SIP subscriber	The SIP standard is deemed to be protocol layer for standard telephone functions
Setup of an IAX subscriber (e.g. DS-6 gateways, PC operator station, MDK a. analogue gateways)	IAX protocol is used for rapid connections
Setup of normal connections	Standard telephone functions
Setup of an ISDN connection	Standard telephone functions with ISDN subscribers
Permission management	The individual subscribers are granted several permissions (e.g. connections to foreign countries or mobile radio, 0800-numbers etc.)
Setup of call center functions with queue	Call routing: forwards calls depending on attributes (sequential, parallel etc.)
Setup of voice mailboxes	Central voice mailbox, where alarms can be saved and retrieved from a telephone; Output of voice calls about disturbances; Text-to-speech function possible
SMS and eMail	SMS and eMail to signalize status changes (mostly disturbances)
Setup of conference rooms	Mostly used as AddOn-conference, where an important subscriber (dispatcher) determines who can participate in the conference
Call forwarding	Automatic or manual forwarding of calls; Important function by emergency call systems; Special version: direct transfer function (forwarding with only one keypress)
Call holding	Subscriber sets existing connection in a waiting state; Important function by emergency call systems
Call transfer	Subscriber can transfer the call to another end device
Pick-Up	Pick-up a call
Call listen in/record	A call can be listen in or be recorded
Third-Party-Control	Function for control panels: call via keypress of the call station part; Calls of multiple targets to route them as subscribers in the conference room

Special functions in connection with intercom and PA systems

Beyond the standard functions from the telephony, special functions in connection with intercom and PA systems are realised by means of TIMM.

PA from telephone:

The mostly used special function is PA from a telephone. Thus, a subscriber can speak from a telephone directly to one or more loudspeaker circuits. Thereby both intern and extern telephone connections are possible, that means the caller can call from the interoffice net or from an extern net (even from a mobile phone). The connection of extern callers are realised by gateways.

A special feature is the acoustic signalling, which signals the caller, when the connection to the loudspeaker is established and when he can speak.

Beyond the manual PA, the automatic PA from a telephone is also possible. Thereby the caller can retrieve a text or a tone which is saved in the system and output it to the target.



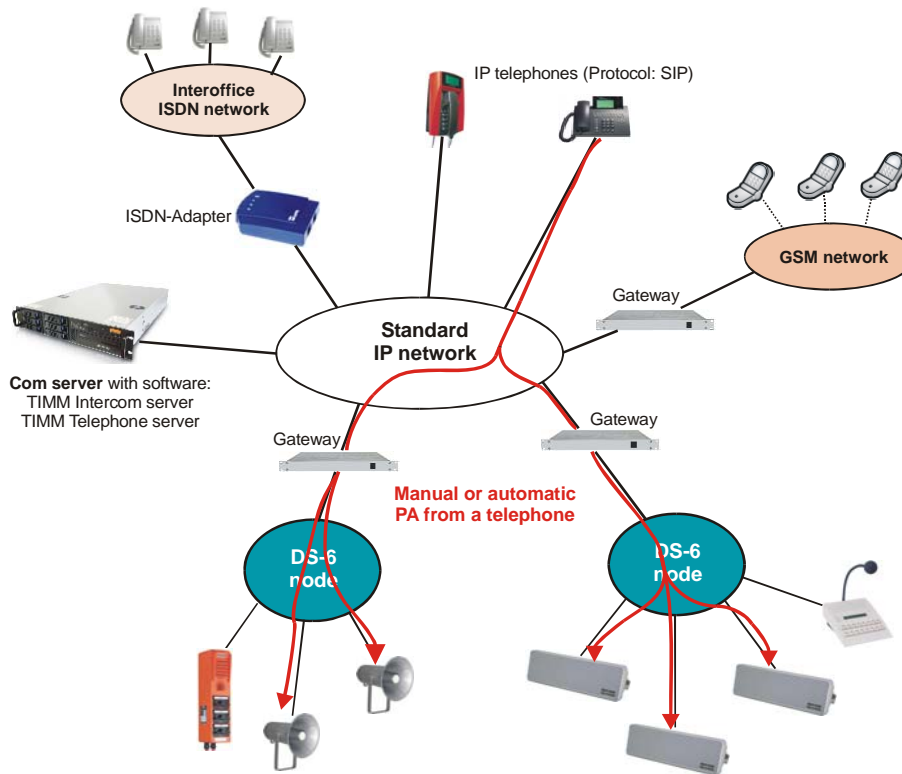
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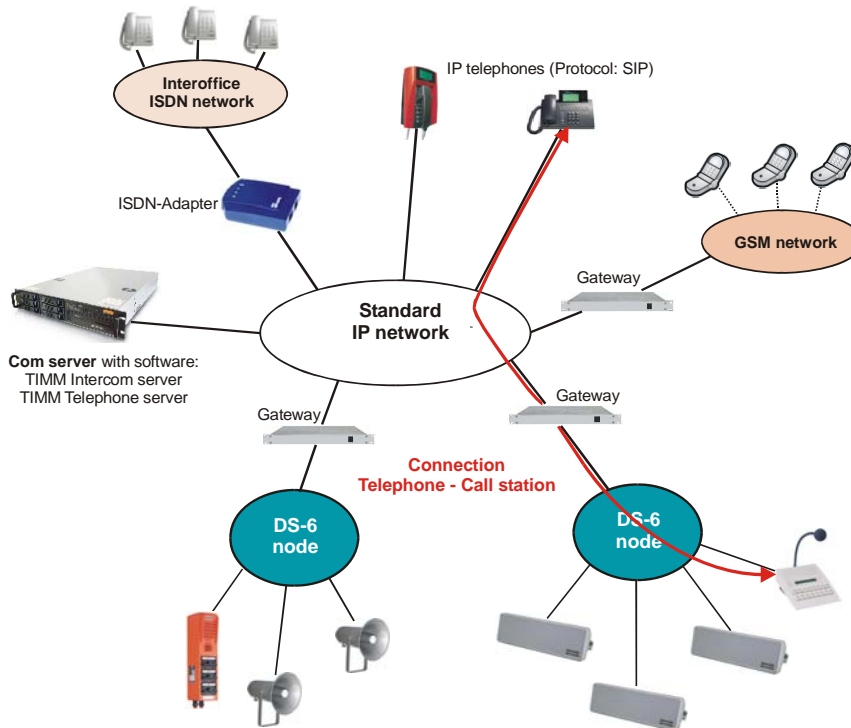


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Connection telephone – call station:

Also the connection between a telephone (with SIP protocol) and a DS-6 call station can be established by the IAX2 protocol via a DS-6 gateway. The call is controlled by key handling at the call station. The call can be terminated either by hang up by the telephone subscriber, by the delete key at the call station or by request by a configured timer.



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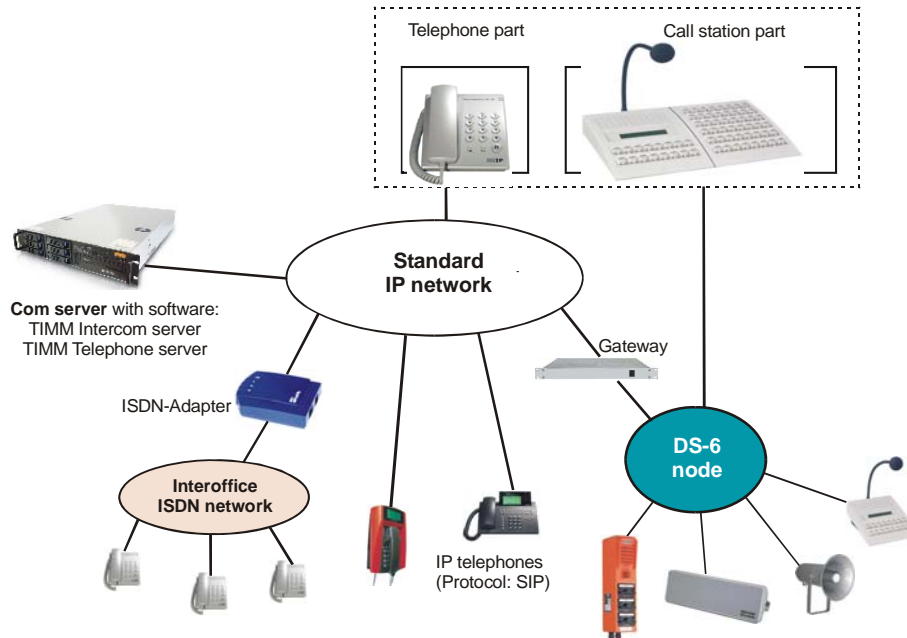
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Control panel = combination of telephone and call station:

If an user wants to occupy functions from the areas of telephony and intercom, a control panel can be utilized. A control panel consists of the combination of a telephone part and a call station part. Therefore functions from both areas are available to the user.



Retrieval of recorded voice calls from a telephone:

Here recorded alarm announcements can be retrieved from any telephone. For example, the last five alarms of a system are saved in the Com Server. An extern subscriber can now call the system also from outside and listen to the saved alarms.



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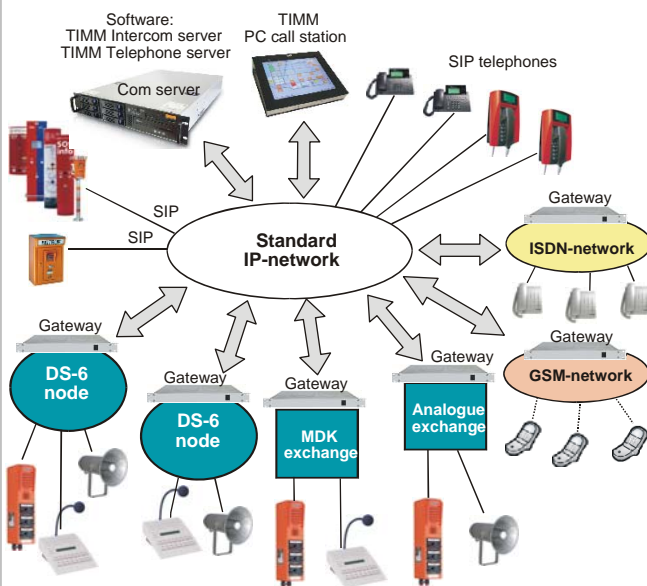


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Training courses January to June 2010 Innovative systems

“TIMM“, our communication system for common IP networks with a focus on intercom, public address, alarm, emergency call and video technology with central monitoring via communication server.

“TIMM“ IP network system with our focus



Our topics:

Information sessions

- Advantages of our new IP solutions
- Advantages of the decentralized over the centralized communication technology; no “single point of failure”
- Migration of existing analogue intercom/PA systems and investment protection of existing intercom/PA end devices
- Using standards for investment protection
- Our communication solutions according to EN 60849 and DIN 0833.4
- Simple solutions for complex alarm control
- Our new software based IP network transmission technology for combination of different subsections like intercom, telephone, PA, video and emergency systems
- Demonstration of applications

Dates:

19 January 2010	13 April 2010
23 February 2010	11 May 2010
16 March 2010	08 June 2010

Free attendance

TIMM and DS-6 training Courses

- An introduction to network technology
- An introduction to centralized IP system technology in standardized transmission networks (TIMM)
- An introduction to local IP system technology (DS-6)
- Presentation of a DS-6 demo system including practical examples for intercom, public address, alarm and telephone connections
- Connection diagrams
- Examples of systems, based on existing systems
- An introduction to the “DS-6 Config” configuration program
- Exercise course: How to configure a demo system using “DS-6 Config”
- How to use the monitor program for locating errors

Two-day training courses:

11 January 2010	to	12 January 2010
09 February 2010	to	10 February 2010
09 March 2010	to	10 March 2010
06 April 2010	to	07 April 2010
04 May 2010	to	05 May 2010
01 June 2010	to	02 June 2010

Training charges for each participant: 998,- Euro

MDK basic training courses

- Hardware system design
- Customized systems
- Service and protocol interface
- Data backup

Three-day training courses:

20 April 2010 to 22 April 2010

Training charges for each participant: 1.238,- Euro

MDK configuration training courses

- An introduction to the MDKLIST configuration program
- Exercise course: How to use the MDKLIST configuration program, including intercom, public address, alarm and telephone functions

Four-day training courses:

21 June 2010 to 24 June 2010

Training charges for each participant: 1532,- Euro

All seminars will be held at:

ms Neumann Elektronik GmbH
Lahnstraße 30
45478 Mülheim an der Ruhr

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