



Newsletter 2010-1

Integration of digital and analogue communication systems in the master plan of the innovative IP solutions with TIMM*

The system DS-6 detaches more and more the current MDK system in the field of intercom/PA. Many customers have MDK exchanges as bonded systems and would like to extend their exchange. An inexpensive and innovative solution is the extension with DS-6 and the investment protection of the MDK at the same time. Equally, analogue systems can be connected to the DS-6. An interconnection between the DS-6 and the MDK respectively analogue systems, which exceeds a normal two communication systems connection, is often required. Existing exchanges are enabled as sub-communication-exchanges to the new DS-6 systems in this connection. The main focus is the availability of more than one voice channel with multiple destination triggering via one channel in each case because of the volume of speech communication. The standard IP network is used for the solution of this connection task. The connection to the standard IP net is made by our gateways. Our Com server is used as the central instance for the software requirements thereby incurred.

Interconnection of the DS-6 system with MDK on the basis of intercom, PA and alarm

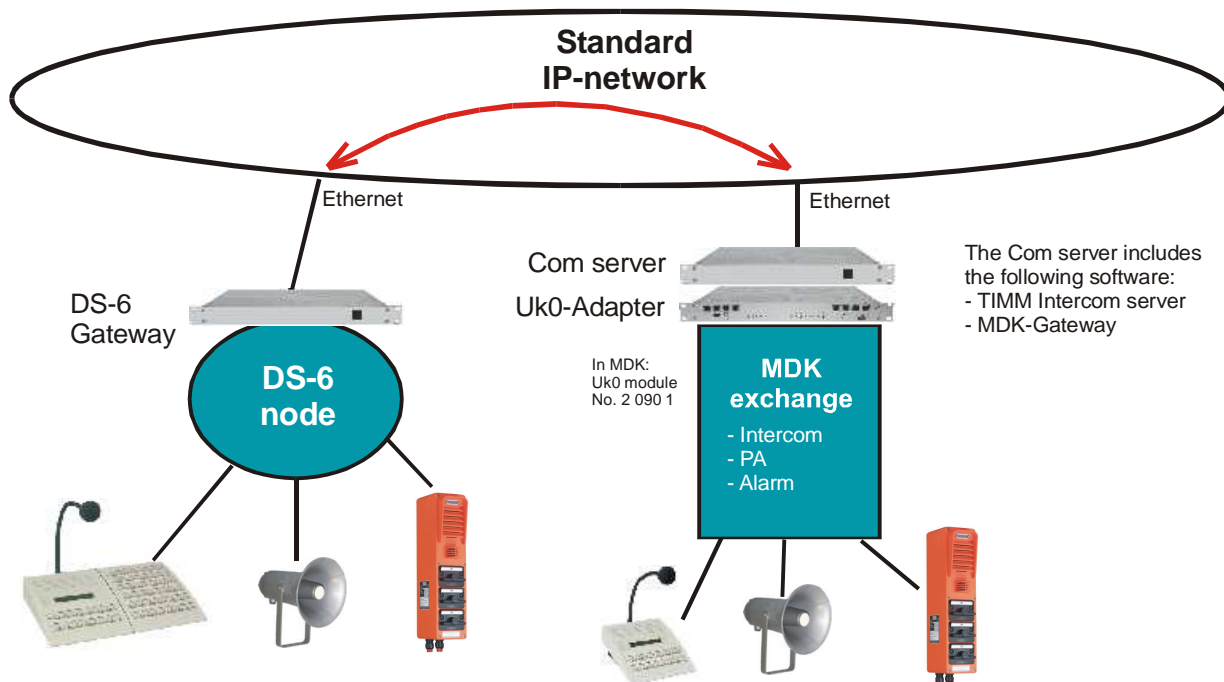


Illustration:

The graphic shows the demand of devices and software for the solution of this connection task. We use the Uk0-adapter with the software for the exchange interconnection to the MDK. The Uk0 modules (L-no. 2 090 1) are used as a complement in the MDK.



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Interconnection of the DS-6 system with MDK on the basis of intercom, PA and alarm and additional telephone connection from MDK to telephones in the standard IP-network

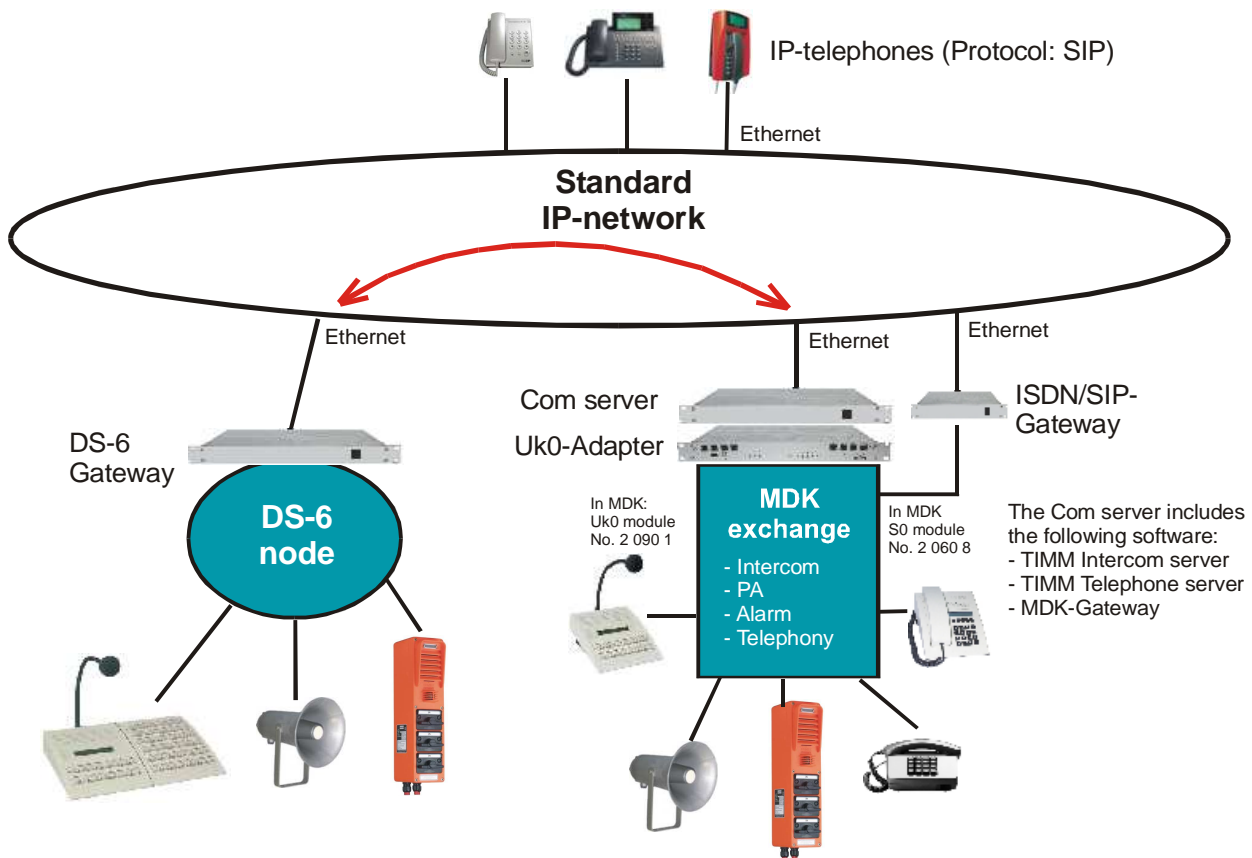


Illustration:

We use ISDN standard gateways in order that telephone connections in excess of the MDK can be ensured. The approved S0 modules (L-no. 2 060 8) are used as a complement in the MDK. Thus, beside half-duplex connections also duplex connections are ensured.

A pure software solution, which comprises all telephone standards, is consulted for telephone exchange. This software is archived in our Com server as TIMM telephone server. The MDK is processed here as a subordinate interphone system.



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Interconnection of the DS-6 system with analogue exchanges on the basis of intercom, PA and alarm

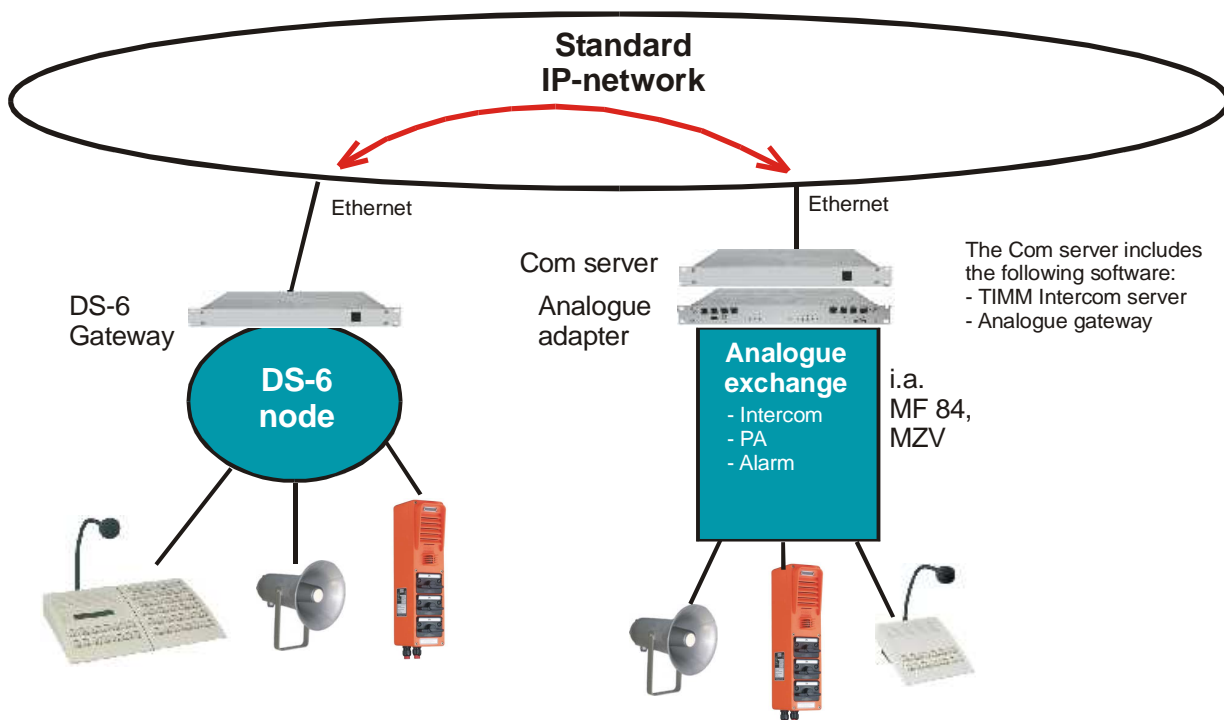


Illustration:

The graphic shows the demand of devices and software for the solution of this connection task. We use the analogue adapter with the software for the exchange interconnection to analogue exchanges as connector for the hardware and software conversion.

The call station and line modules are used as a complement in the analogue exchange.

* "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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Modem for high distances between DS-6 indoor call stations and the DS-6 node

The distance of the ethernet connection in IP systems from an end device to the net node is max. 100 m. Mostly, this distance does not suffice. The distances can be extended up to 3 km due to the presented DSL-modem "ETH-2W".

The connecting cables between the modems are screened twisted pair cables.

For the transmission is only one 2 lines cable required. If higher bit rates are desired, the modem can be switched over to 4 lines operation.

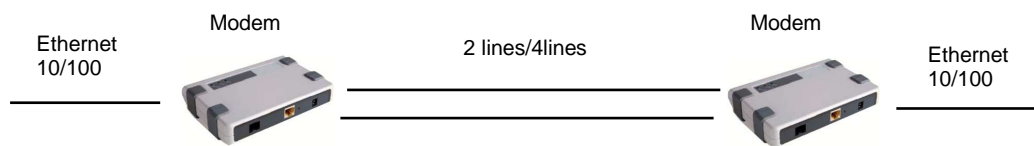
The high distances are achieved due to the process "SHDSL.bis" with symmetric full duplex transmission.

Bit rates: 2 lines 5,7 Mbit/s, 4 lines 11,4 Mbit/s

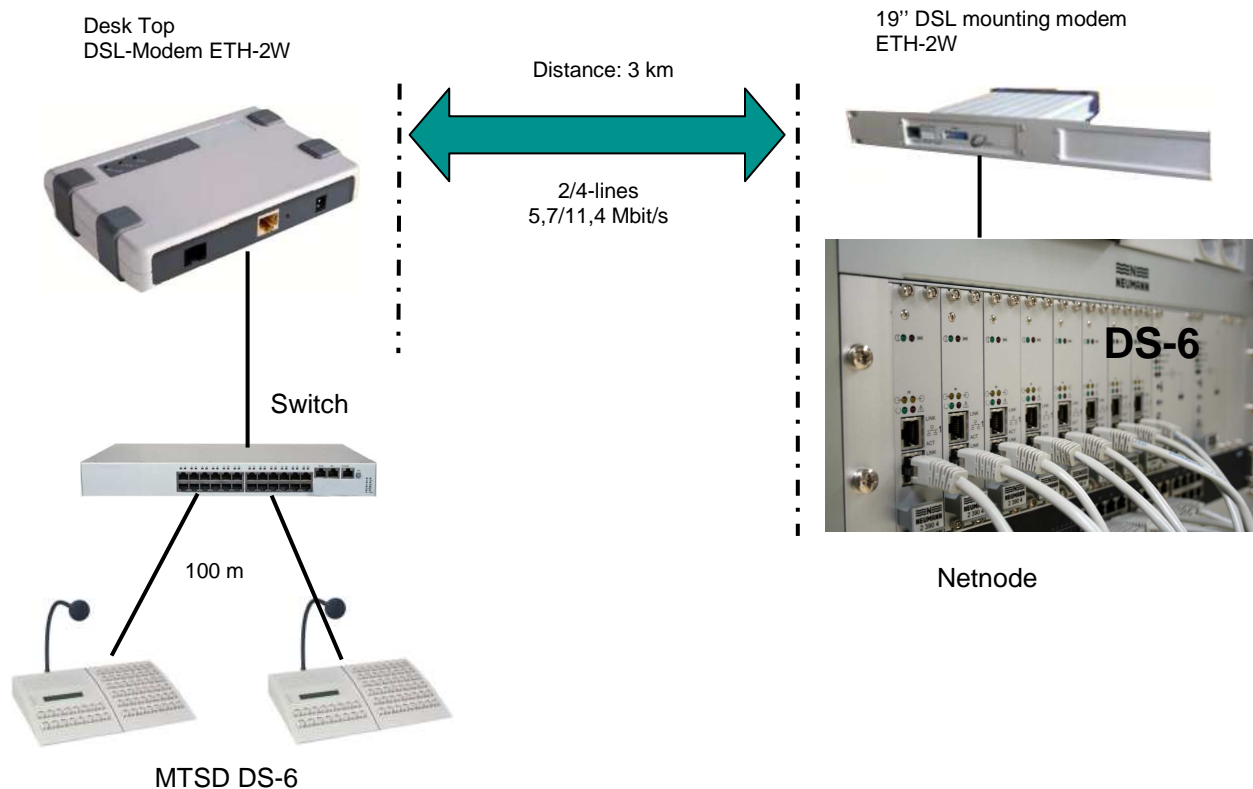
Power consumption: < 4 Watt

A desktop modem is installed on the DS-6 indoor call station.

A robust aluminium package in a 19" mounting frame with an integrated voltage converter (18 to 75 DVC) is designated for the mounting of the modem in the DS-6 node.



Basic circuit of the modem operation of offset DS-6 indoor call stations



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Information about our new products

We organize periodical informative meetings.

Our next German-speaking informative meeting take place on 19 Jan. 2010.

We would like to welcome you at our company to this meeting.

You will gain a separate invitation briefly.

We also gladly organize an informative meeting at your company.

Our contact person is Mr Ripholz,

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E-Mail: bripholz@neumann-elektronik.com.

Innovative solutions for voice communication in connection with the protection of your existing investments are essential for us. Downward compatibility and state-of-the-art technology are combined in our system technology.

AGENDA to the informative meeting:

- Advantages of our new IP-solutions
- Advantages of the decentralized against 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-net transmission technology for the combination of different subsections like intercom, telephone, PA, video and emergency call systems
- Demonstration of applications

Bernhard Ripholz



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